

## CHAPTER V.

## FOREST ADMINISTRATION.

Officers in charge.	151. The charge of the Circle and of the different Divisions was held by the officers mentioned below :—		
CIRCLE	...	...	Mr. F. R. Dasai, whole year.
SUKKUR DIVISION	...	...	Mr. Shaukiram Peribdas, whole year.
NAUSHAHRO DIVISION	...	...	Mr. B. G. Deshpande, whole year.
HYDERABAD DIVISION	...	...	Mr. B. H. Dalal, from 1st July 1896 to 17th May 1897.
			Mr. G. K. Betham, from 18th May to 30th June 1897.
JERRUCK DIVISION	...	.	Mr. G. M. Ryan, from 1st July 1896 to 29th December 1896.
			Mr. F. R. Dasai, from 30th December 1896 to 5th January 1897.
			Mr. G. K. Betham, from 6th January 1897 to 30th June 1897.
WORKING PLANS DIVISION	...	{	Mr. O. H. L. Napier, from 1st July 1896 to 16th March 1897.
			Mr. B. H. Dalal, from 17th March 1897 to 30th April 1897.
			Mr. O. H. L. Napier, from 1st May 1897 to 6th May 1897.
			Mr. B. H. Dalal, from 7th to 19th May 1897.
			Mr. F. R. Dasai, from 20th May to 30th June 1897.

152. I was appointed Conservator of Forests, 3rd Grade, with effect from the 25th November 1896, in consequence of the changes caused by the lamentable death of Mr. J. L. MacGregor, Conservator of Forests, 2nd Grade. Under the orders of Government contained in their Resolution No. 1028, dated 16th December 1896, Mr. G. M. Ryan was transferred to South Thana, Northern Circle, and was relieved of the charge of the Jerruck Division on 30th December 1896 in the forenoon. His place was taken by Mr. G. K. Betham, Deputy Conservator of Forests, 2nd Grade, who joined his duties in Sind on 6th January 1897. Mr. B. H. Dalal, Extra-Assistant Conservator of Forests, having been transferred to the Rajpipla State, made over charge of the Hyderabad Division to Mr. G. K. Betham, Divisional Forest Officer, Jerruck, who continued to hold it, in addition to his own, from 18th May 1897 to the end of the year, as the transfer of Mr. Haripad Mitra, Extra-Assistant Conservator of Forests, who had been posted to this Circle, was suspended, pending completion of the work on which he was then engaged. The services of Mr. O. H. L. Napier, Deputy Conservator of Forests, and Mr. Shaukiram Peribdas, Extra Assistant Conservator of Forests, had to be spared during the year for plague duty. The former handed over the charge of the Working Plans Office to Mr. B. H. Dalal, who was in turn relieved by me on being transferred to foreign service. Mr. Shaukiram Peribdas, who had been entrusted with the arrangements of the Segregation Camps in Sukkur, carried them out in addition to his own duties. Mr. Napier proceeded to England on three months' privilege leave on account of ill-health from 7th May 1897.

153. In the numerical strength of the Executive and Protective staffs, there was no change. The utter inadequacy of these establishments has formed the subject of comment on various occasions, and the urgency of improving their status and placing them on a better footing is being keenly felt.

154. No new students arrived from Poona during the year, but the two candidates admitted to the Forest Class last year will be coming out in December next, if they undergo successfully the final test. The system of nomination, under which each Conservator had authority to select a certain number of candidates for training in the College, has been done away with and admissions are now made by competitive examination, to be held by the Principal in Poona. An exception has, however, been made in favour of Sind on a representation having been made from the Circle office, pointing out the consequences of the inconvenience and the hardship which the intending candidates from this Province would be subjected to in the event of their being obliged to go to Poona to appear for the competitive examination. This examination will henceforth be conducted simultaneously in Sind, under the superintendence of the Conservator of Forests, after being duly advertised, the examination papers being set by the College staff.

155. The establishments in the Circle, as well as in the Divisional offices remained at the same strength as that of the year preceding. The work in the different offices has increased to such an extent as to loudly call for revision. In response to the directions conveyed in Government Resolution No. 4659, dated 23rd June 1897, separate proposals have been submitted for revising them, and it is earnestly hoped they will be sanctioned ere long.

156. The budget grant as well as the actual expenditure on account of the subordinate Protective and Office establishments is given below for two years for the sake of comparison :—

Establishment.	Sanctioned grant, Financial year.		Actual expenditure, Financial year.	
	1895-96.	1896-97.	1895-96.	1896-97.
Office ...	10,700	10,632	*10,571	10,606
Protective ...	39,000	39,000	*37,586	37,112
Total ...	49,700	49,632	48,157	47,718

\* The figures given in last year's report were incorrect.

157. The conduct of the Executive and the Office staffs continued to be satisfactory on the whole, only one Ranger—the senior on the list—having been reduced for the perfunctory manner in which he discharged his duties. There was some improvement in the conduct of the members of the Protective branch also, the number of persons dismissed and reduced being less than that of the year previous; but the number of those fined somewhat increased, as some required a little waking up in the matter of grazing collections, and others were inclined to be indolent and displayed dilatoriness in the execution of orders.

158. The health of the establishments was reported to be good. No subordinate died of plague during the year.

159. The Forest Department lost the services of one of its best Sub-Rangers under most distressing circumstances in the year of report. While on his way to the camp of the Range Forest Officer at Nasri on the 9th January 1897, to deliver the grazing collections made by him, he was set upon by some ruffians and murdered in cold blood in broad day-light. He was also robbed of Rs. 15-10-6 out of the total sum of Rs. 22-10-6, and the balance of Rs. 7

was found on the deceased's person tied up in his waist band. Such an occurrence was the first of its kind in the annals of the Department since its organisation. All efforts to trace the real murderers having failed, the stolen money had to be written off with the sanction of Government.

#### SERVICES OF OFFICERS.

160. In the transfer of Mr. G. M. Ryan, Deputy Conservator of Forests, to the Northern Circle and in the deputation of Mr. B. H. Dalal, Extra Assistant Conservator of Forests to foreign service in the Rajpipli State, the Sind Circle has lost the services of two intelligent and zealous officers.

161. Mr. G. K. Betham, Divisional Forest Officer, Jerruck, being new to the Province, had just sufficient time after his arrival in January 1897 to make himself pretty well acquainted with the forests of his charge.

162. The arduous duties pertaining to his dual charge, requiring more than ordinary exertion, Mr. Napier has performed satisfactorily. No little credit is due for the tact and judgment he displayed in effecting the settlement of two long-standing boundary disputes in the Jerruck Division.

163. The management of the Naushahro Division by Mr. B. G. Deshpande has met with my approval.

164. Mr. Shaukiram, Divisional Forest Officer, Sukkur, whose reputation as a hard-working officer has been already established, has during the year under report earned my special thanks for the creditable manner in which he has supervised and carried out the cultural operations in almost all the ranges of his Division.

165. Special mention of the following Range Forest Officers has been made in the Divisional reports:—

#### *Rangers.*

1. Metharam Deumal.
2. Bulchand Parumal.
3. Dalpatrai Jethanand.
4. Vishindas Ram Baksh.

#### *Foresters.*

5. Mangharam Dayaram.
6. Kauromal Nihalsing.
7. Tekchand Kevalram.
8. Bulchand Hasomal.
9. Lakhasing Nihalehand.
10. Dayaram Neribdas.
11. Kundanmal Jhamrai.

166. The Circle and the Divisional office establishments, there can be no doubt, are overworked, and if relief is not afforded soon, some of the members will break down in health completely. The Clerks have all, without an exception, been reported on favourably by the officers under whom they are serving, and it gives me pleasure once again to bring to the notice of Government the care and ability shown by the Head Accountant in the Circle office, Mr. Parmanand Hirdaram, in carrying on the Account work, and the marked intelligence and industry displayed by the Head Clerk, Mr. Parmanand Udhamam, in the correspondence branch, work in which is increasing day by day.

#### GENERAL REMARKS.

167. In the recess season, I visited Hyderabad and Sukkur, and was absent from head-quarters from the 20th July to the 1st August 1896. During my stay at both these places, besides inspecting the cultural operations in the forests in their vicinity, I tried to sell the coupes of the Hyderabad, Naushahro and Sukkur Divisions, but the tenders received on the dates fixed were so low that they had to be rejected, and consultations were held with the Divisional Forest Officers concerned as to the best manner of breaking through the combination which was apparent amongst the purchasers.

168. I left Karachi on my cold weather tour on the 8th November, proceeding to Hyderabad, where I made a halt of five days and was successful in disposing of the remaining coupe and other contracts of the year. Leaving Hyderabad on the 14th, I marched through the Miani and Rano Ranges, daily inspecting the timber and other operations on the way with the Divisional Forest Officer, and crossed over to the right bank at Amri on the 6th December, and the camp moved to Sehwan on the 9th. In the Sehwan Range, I stayed up to the 23rd, to minutely examine the results of the cultural operations undertaken in high-lying land with the aid of cereal crops, and was pleased to see that they were encouraging. The office opened on the 4th January 1897 at Sukkur, having marched to that place during the Christmas holidays from Dadu.

169. After inspecting the excellent natural and artificial reproduction of the year in the forests round about Sukkur, camp was moved to Mari, where the outlines of a working plan for the Rohri fuel reserves were discussed and decided on with Mr. O. H. L. Napier, the Divisional Forest Officer. Keeping along the left bank and marching rapidly through the Sadhuja, Ghotki and Mirpur Ranges, in which extensive cultural operation had been carried on during the preceding inundation season, I crossed over to the right bank of the river from Tando Nijabat on the 27th, and, after visiting the forests of the Kashmor and Abad Ranges, reached Shikarpur on the 8th February. The Kot Sultan plantation was carefully examined on the 9th, and it was noticed that, although the unprecedented frosts of the year had checked somewhat the young babul growth, its condition was on the whole satisfactory.

170. Leaving the Sukkur Division on the 13th February, the forests of the Naushahro Abro Range were next inspected, in which the damage by browsers unhappily appeared to have not been checked to the extent I should like to see, and I arrived at Akil near Larkana on the night of the 17th. Here, boats were procured to enable me to move faster, and with the office I went down stream in them, halting wherever necessary to inspect the forests in the Kandiaro and Sehwan Ranges on the left bank as I passed to Butho forest, which was reached on the 28th February.

171. After spending a fortnight in the very important forests of the Unarpur Range, I commenced the inspection of the Jerruck Division with the Veran Range on the 15th March in company of Mr. G. K. Betham, the Divisional Forest Officer, and noticed with satisfaction that the reproduction in the coupes exploited in the preceding working season left nothing to be desired, and was excellent. The Tatta Range was next examined, in which my attention had to be devoted to the selection of coupes for the coming year. Crossing the river by the steam ferry at the Baghyar Canal mouth on the 31st March, I passed by quick stages through the Shabbandar, Penah, Mulchand and Katyar Ranges, and returned to Karachi on the 15th April.

Examination of Divisional records.

172. The records and accounts of all Divisional Forest Officers were examined during the year, and no serious mistakes were discovered.

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

*Sind Forest Circle Office,  
Camp Miani, 9th November 1897.*

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FORM No. 46.

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FORM No. 46.  
FOREST DEPARTMENT, SIND CIRCLE.  
*Area of Reserved Forests, 1896-97.*

Division or Range.	Civil District or Territory.	Name of Forest.	AREA ON 1ST JULY 1896.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1897.		No. and date of Notification of addition or transfer.	REMARKS.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
		Raoti ...	8,129	12.449	.....	.....	8,129	12.449		In last year, the area of waste forest was included in that of the Raoti Forest, but has been now separated.
		Wasti ...	2,315	3.395	.....	.....	2,315	3.395		
		Daresh ...	1,725	2.445	.....	.....	1,725	2.445		
		Ubauro ...	3,150	4.590	.....	.....	3,150	4.590		
		Mirpur ...	7,251	11.211	.....	.....	7,251	11.211		
		Raharki ...	1,654	2.374	.....	.....	1,654	2.374		
		Reti ...	2,388	3.468	.....	.....	2,388	3.468		
		Rangu ...	972	1.332	.....	.....	972	1.332		
		Narli ...	1,376	2.96	.....	.....	1,376	2.96		
		Sarhad ...	3,696	5.493	.....	.....	3,693	5.493		
		Atal ...	1,171	1.531	.....	.....	1,171	1.531		In previous years, the area of the Atal Forest was included in that of the Sarhad Forest, but has now been separated.
		Islam ...	2,064	3.144	.....	.....	2,064	3.144		
		Jehanpur ...	4,661	7.181	.....	.....	4,661	7.181		
		Bahab ...	8,985	14.25	.....	.....	8,985	14.25		
		Budh ...	1,217	1.577	.....	.....	1,217	1.577		
		Sadhuja ...	7,670	11.630	.....	.....	7,670	11.630		
		Shabpur ...	11,215	17.335	.....	.....	11,215	17.335		
		Husenbeli ...	3,407	5.207	.....	.....	3,407	5.207		
		Pawhari ...	587	.587	.....	.....	587	.587		
		Azizpur ...	880	1.240	.....	.....	880	1.240		
		Ding ...	1,543	2.263	.....	.....	1,543	2.263		In past years, the areas of the Bandh and Luluwali Forests was included in that of the Ghotki Forest. It has now been separated.
		Saydpur ...	8,400	13.80	.....	.....	8,400	13.80		
		Rohri ...	13,119	20.319	.....	.....	13,119	20.319		
		Sultanpur ...	1,753	2.473	.....	.....	1,753	2.473		
		Saliani ...	5,014	7.534	.....	.....	5,014	7.534		
		Ghotki ...	6,012	9.252	.....	.....	6,012	9.252		
		Bandh ...	1,060	1.420	.....	.....	1,060	1.420		
		Laluwali ...	835	1.195	.....	.....	835	1.195		
		Adilpur ...	13,757	21.317	.....	.....	13,757	21.317		
		Walu Mahar ...	2,648	4.88	.....	.....	2,648	4.88		
		Samowah ...	2,252	3.332	.....	.....	2,252	3.332		
		Wasir ...	1,417	2.137	.....	.....	1,417	2.137		
		Jarwar ...	2,839	4.279	.....	.....	2,839	4.279		
		Abad ...	5,604	8.484	.....	.....	5,604	8.484		
		Kadurni Bindi ...	2,306	3.386	.....	.....	2,306	3.386		
Sukkur ...		Khia Bindi ...	3,118	4.558	.....	.....	3,118	4.558		

Faushahro ...	Upper Sind Frontier.	Shah ...	13,433	20,633	.....	.....	13,433	20,633
		Bindi Dhareja ...	6,866	10,466	.....	.....	6,866	10,466
		Kadrapur ...	2,564	4,4	.....	.....	2,564	4,4
		Mohro mari ...	11,857	18,337	.....	.....	11,857	18,337
		Andal-dal ...	12,104	18,584	.....	.....	12,104	18,584
		Bagarji ...	13,884	21,444	.....	.....	13,884	21,444
		Lakhi ...	3,614	5,414	.....	.....	3,614	5,414
		Garhi Halim ...	2,096	3,176	.....	.....	2,096	3,176
		Raiswah ...	905	1,265	.....	.....	905	1,265
		Kot Sultan ...	17,342	27,62	.....	.....	17,342	27,62
		Abad ...	985	1,345	.....	.....	985	1,345
		Mehrabpur ...	996	1,356	.....	.....	996	1,356
		Dilawarpur ...	925	1,285	.....	.....	925	1,285
		Milkiat Sarkar ...	1,923	3,3	.....	.....	1,923	3,3
		Bakapur ...	9,839	15,239	.....	.....	9,839	15,239
		Balochabad ...	765	1,125	.....	.....	765	1,125
		Gondak ...	5,076	7,596	.....	.....	5,076	7,596
		Jangan ...	2,291	3,371	.....	.....	2,291	3,371
		Keti Sadhuja ...	6,001	9,241	.....	.....	6,001	9,241
		Jamshero ...	6,616	10,216	.....	.....	6,616	10,216
		Gihilpur ...	4,887	7,407	.....	.....	4,887	7,407
		Gandher... ..	1,677	2,397	.....	.....	1,677	2,397
		Badani ...	772	1,132	.....	.....	772	1,132
		Makhan Belo ...	629	629	.....	.....	629	629
		New Gublo ...	7,870	12,190	.....	.....	7,870	12,190
		Sundrani ...	2,752	4,192	.....	.....	2,752	4,192
		Daho ...	1,361	2,81	.....	.....	1,361	2,81
		Wahidpur ...	1,501	2,221	.....	.....	1,501	2,221
Faushahro ...	Shikarpur ...	Total, Sukkur Division ...	287,718	449,358	.....	.....	287,718	449,358
		Garhi Yasin ...	25,328	39,368	.....	.....	25,328	39,368
		Madeji ...	4,213	6,373	2,071	.....	6,284	9,524
		Dosu ...	5,138	8,18	.....	.....	5,138	8,18
		Keti Ubhuro ...	5,575	8,455	.....	.....	5,575	8,455
		Kanuri ...	3,630	5,430	.....	.....	3,630	5,430
		Sharifpur ...	1,027	1,387	.....	.....	1,027	1,387
		Bahman... ..	1,547	2,267	.....	.....	1,547	2,267
		Naoabad ...	2,205	3,285	.....	.....	2,205	3,285
		Amrot ...	11,684	18,164	.....	.....	11,684	18,164
		Muso ...	4,755	7,275	.....	.....	4,755	7,275
		Abrepota ...	1,309	2,29	.....	.....	1,309	2,29
		Kacho Beli Gaji ...	1,127	1,487	.....	.....	1,127	1,487
		Kacho Akil ...	271	271	.....	.....	271	271
		Kasim Shah ...	2,056	3,136	.....	.....	2,107	3,187
		Nari ...	1,419	2,139	.....	.....	1,419	2,139
Faushahro ...	Shikarpur ...	Budho-dero ...	1,555	2,275	.....	.....	1,555	2,275
		Soi ...	5,108	7,628	.....	.....	5,108	7,628
		Gajidero ...	4,238	6,398	.....	.....	4,333	6,493
		Ghangharko ...	5,849	9,89	.....	.....	5,849	9,89

G. R. No. 4501 A of  
8th June 1896.

Division or Range.	Civil District or Territory.	Name of Forest.	AREA ON 1ST JULY 1895.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1896.		No. and date of Notification of addition or transfer.	REMARKS.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
Naushahro— continued.	Hyderabad ...	Khairo-dero ...	13,073	20·273	.....	.....	13,073	20·273	G. R. No. 3779 of 11th May 1897. Do.	
		Lalia ...	4,192	6·352	.....	.....	4,192	6·352		
		Bhour and Musodero ...	10,902	17·22	.....	.....	11,010	17·130		
		Mohbatdero and Lundi ...	8,796	13·476	.....	.....	8,796	13·476		
		Samtia ...	3,390	5·190	.....	.....	3,418	5·218		
		Kamaldero ...	1,365	2·85	.....	.....	1,365	2·85		
		Bhorti ...	10,790	16·550	.....	.....	10,790	16·550		
		Dalipota ...	867	1·227	.....	.....	867	1·227		
		Bhand Mari Bindi Sono and Abad ...	3,149	4·589	.....	.....	3,149	4·589		
		Karainpur ...	2,924	4·364	.....	.....	2,924	4·364		
	Karachi ...	Kandi Baghban ...	1,947	3·27	.....	.....	1,947	3·27		
		Bhan ...	1,138	1·498	.....	.....	1,138	1·498		
		Phaka ...	2,207	3·287	.....	.....	2,207	3·287		
		Kalu-bori ...	748	1·108	.....	.....	748	1·108		
		Pipri ...	925	1·285	.....	.....	925	1·285		
		Total, Naushahro Division ...	154,447	241·207	2,353	.....	156,800	245·0		
		Lakhat ...	6,380	9·620	.....	.....	6,380	9·620		
		Kot Dhangano ...	123	·123	.....	.....	123	·123		
		Lakhat ...	295	·295	.....	.....	295	·295		
		Kacho Lakha ...	590	·590	.....	.....	590	·590		
		Bahawal Shah ...	1,518	2·238	.....	.....	1,518	2·238		
		Nasri ...	1,556	2·276	.....	.....	1,556	2·276		
		Mad ...	2,642	4·82	.....	.....	2,642	4·82		
		Kacho Mad ...	583	·583	.....	.....	583	·583		
		Kacho Mahrabpur ...	1,028	1·388	.....	.....	1,028	1·388		
		Mahrabpur ...	3,338	5·138	.....	.....	3,338	5·138		
		Mari ...	14,753	23·33	.....	.....	14,753	23·33		
		Pai ...	5,130	8·10	.....	.....	5,130	8·10		
		Keti Jurio ...	2,125	3·205	.....	.....	2,125	3·205		
		Nakur ...	331	·331	.....	.....	331	·331		
		Rano ...	1,627	2·347	.....	.....	1,627	2·347		
		Amin Lakho ...	578	·578	.....	.....	578	·578		
		Kunar ...	1,695	2·415	.....	.....	1,695	2·415		
		Kari ...	3,239	5·39	.....	.....	3,239	5·39		



Hyderabad...	Hyderabad ...	Rishal ...	682	142	.....	.....	682	142
		Nur Ketl ...	4,061	6221	.....	.....	4,61	6221
		Bhanot ...	2,021	3101	.....	.....	2,021	3101
		Shorki ...	2,283	3363	.....	.....	2,283	3363
		Keti Sidik ...	8,666	13346	.....	.....	8,666	13346
		Khanot ...						
		Keti Khasai ...						
		Kacho Khanot ...	2,735	4175	.....	.....	2,735	4175
		Ghotana ...	1,409	2129	.....	.....	1,409	2129
		Salaro ...	1,536	2256	.....	.....	1,536	2256
		Murid Rais ...	2,948	4388	.....	.....	2,948	4388
		Khebrani ...	760	1120	.....	.....	760	1120
		Sekhat ...	2,080	3160	.....	.....	2,080	3160
		Jakhri ...	1,926	36	.....	.....	1,926	36
		Matiari ...	5,354	8234	.....	.....	5,354	8234
		Ghali ...	3,694	5494	.....	.....	3,694	5494
		Miani ...	4,917	7437	.....	.....	4,917	7437
		Kachri ...	756	1116	.....	.....	756	1116
		Gundi ...	2,150	3230	.....	.....	2,150	3230
		Muhammed Khan ...	181	181	.....	.....	181	181
		Hingorani ...	191	101	.....	.....	101	101
		Elchi ...	187	187	.....	.....	187	187
		Jamshoro ...	292	292	.....	.....	292	292
		Shah Makai ...	314	314	.....	.....	314	314
		Keti Mehrani ...	5,523	8403	.....	5,523	.....	.....
		Giderji ...	855	1215	.....	.....	855	1215
		Butho ...	7,748	1268	.....	.....	7,748	1268
		Lakha ...	250	250	.....	.....	250	250
Jerruck ...	Karachi ...	Manjhand ...	1,539	2259	.....	.....	1,539	2259
		Unarpur ...	10,705	16465	.....	.....	10,705	16465
		Ghag ...	1,296	216	.....	.....	1,296	216
		Karokhbo ...	1,701	2421	.....	1,701	.....	.....
		Total, Hyderabad Division ...	126,201	197,121	.....	7,224	118,977	185,577
		Viran ...	9,142	14182	.....	.....	9,142	14182
		Sonda ...	2,114	3194	.....	.....	2,114	3194
		Hilaya ...	2,898	4338	.....	.....	2,898	4338
		Lalang ...	5,151	831	.....	.....	5,151	831
		Ali Ganj ...	723	183	6	.....	729	189
		Shah Lonko ...	1,690	2410	.....	.....	1,690	2410
		Kach Shah Lonko ...	313	313	.....	.....	313	313
		Keti Mahrani ...	.....	.....	5,523	.....	5,523	8403
		Karokho ...	.....	.....	1,701	.....	1,701	2421
		Bao Purandas ...	6,413	1013	14 + 82	.....	6,509	10109
		Bijora ...	6,075	9315	.....	.....	6,075	9315
		Garko ...	4,079	6239	.....	.....	4,079	6239
		Chhachh... ..	3,556	5356	.....	.....	3,556	5356
		Sadnani ...	863	1223	.....	.....	863	1223

Transferred to Jerruck Division.

Do.

G. R. No. 7031 of 22nd August 1894.

Omitted from Form No. 46 of 1894.

G. R. No. 6275 of 10th August 1896.

G. R. No. 7031 of 22nd August 1894.

Transferred from Hyderabad Division.

Vide remarks against Ali Ganj Forest.

Division or Range.	Civil District or Territory.	Name of Forest.	AREA ON 1ST JULY 1895.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1897.		No. and date of Notification of addition or transfer.	REMARKS.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
Jerruck— <i>continued.</i>	Karachi— <i>continued.</i>	Malir ... ..	24	24	.....	.....	24	24		
		Kotri Alahrahio Shah ...	2,000	3.80	.....	.....	2,000	3.80		
		Marho Kotri ... ..	2,409	3.489	.....	.....	2,409	3.489		
		Dhand Shakrani ... ..	56	56	.....	.....	56	56		
		Khanani ... ..	2,551	3.631	.....	.....	2,551	3.631		
		Achh/Marho and Kacho Alah- baksh. ... ..	3,392	5.192	.....	.....	3,392	5.192		
		Kacho Ali Bahar ... ..	4,000	6.160	.....	.....	4,000	6.160		
		Ganj ... ..	2,228	3.308	.....	.....	2,228	3.308		
		Hazari ... ..	2,483	3.563	.....	.....	2,483	3.563		
		Makhulo ... ..	496	496	.....	.....	496	496		
		Kacho Pawhar ... ..	723	1.83	.....	.....	723	1.83		
		Kacho Surjani ... ..	3,818	5.618	.....	.....	3,818	5.618		
		Kot Almo ... ..	2,335	3.415	.....	.....	2,335	3.415		
		Penah ... ..	6,169	9.409	.....	.....	6,169	9.409		
		Susati ... ..	43	43	.....	.....	43	43		
		Khirsar ... ..	1,380	2.100	.....	.....	1,380	2.100		
		Huderani ... ..	5,511	8.391	.....	.....	5,511	8.391		
		Surjani ... ..	1,387	2.107	.....	.....	1,387	2.107		
		Jorar ... ..	6,613	10.213	.....	.....	6,613	10.213		
	Hyderabad ...	Khadi ... ..	4,500	7.20	.....	.....	4,500	7.20		
		Phatah ... ..	258	258	.....	.....	258	258		
		Mulchand ... ..	5,454	8.334	.....	.....	5,454	8.334		
		Budka Takar ... ..	975	1.335	.....	.....	975	1.335		
		Husri ... ..	420	420	.....	.....	420	420		
		Khatro ... ..	416	416	.....	.....	416	416		
		Khathar ... ..	2,975	4.415	.....	.....	2,975	4.415		
		Katiar ... ..	952	1.312	.....	.....	952	1.312		
		Khirdahi ... ..	290	290	.....	.....	290	290		
		Tikhur ... ..	1,709	2.429	.....	.....	1,709	2.429		
		Khokhar ... ..	1,556	2.276	.....	.....	1,556	2.276		
		Total, Jerruck Division ...	119,140	172.60	7,326	.. ..	117,466	183.346		
		GRAND TOTAL ...	678,506	1,060.106	9,679	7,224	680,961	1,064.1		

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

FORM No. 46-A.  
FOREST DEPARTMENT, SIND CIRCLE.  
*Area of Protected Forests, 1896-97.*

Division.	Civil District or Territory.	Name of Forest.	AREA ON 1ST JULY 1896.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 30TH JUNE 1897.		No. and date of Notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.		
		<i>I. Protected Forests.</i>								
Sukkur ...	Upper Sind Frontier ...	Dickinson ...	585	585	...	...	585	585		
Naushahro ...	Karachi... ..	{ Karampur ... Shahgar Dhandhan. }	2,347	3.427	...	2,347	...	...		As this area has not been notified as Protected Forest under the Indian Forest Act, it has been shown under Unclassed Forests. Vide above remarks.
		<i>II. Unclassed Forests.</i>								
Naushahro ...	Karachi... ..	{ Karampur ... Shahgar Dhandhan. }	...	...	2,347	...	2,347	3.427		
		Total ...	2,932	4.372	2,347	2,347	2,932	4.372		

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

FORM No. 48.

FOREST DEPARTMENT, SIND CIRCLE.

*Record of Demarcation and Maintenance of Boundaries, 1896-97.*

Division. (1)	Length of boundaries artificially demarcated during the year. (2)	Length of previously existing boundaries repaired. (3)	Length of previously existing boundaries not repaired. (4)	Total length of artificially marked boundaries at the close of the year. (5)	Length of boundaries not demarcated at the close of the year. (6)	Length of natural boundaries not requiring artificial marks. (7)	Total length of boundaries at the close of the year. (8)	EXPENDITURE ON DEMARCATION DURING THE YEAR.	
								On new work. (9)	On repairs. (10)
	M. Ft.	M. Ft.	M. Ft.	M. Ft.	M. Ft.	M. Ft.	M. Ft.	Rs.	Rs.
Sukkur ...	...	964 825	...	964 825	...	142 468	1106 1293	...	...
Naushahro ...	1 4620	19 3308	425 2582	446 5230	28 4290	96 201	571 4441	3	...
Hyderabad ...	47 1510	196 4892	...	214 1122	26 0	163 150	433 1272	79	...
Jerruck ...	32 0	194 440	...	226 440	9 0	155 1760	390 2200	158	...
	81 850	1374 4185	425 2582	1881 2337	63 4290	556 2579	2501 3926	240	...

N.B.—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of sub-divisions, such as blocks, compartments, coupes.

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

**ANNUAL FORM No. 52.**  
**FOREST DEPARTMENT, SIND CIRCLE.**  
*Prosecutions for breaches of Forest Rules during 1896-9..*

Forest Division and Civil District.		Cases pending from 1895-96.	NEW CASES OF THE YEAR.					Total Cases.	DISPOSED OF DURING THE YEAR.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing with out permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
									Cases. (9)	Persons. (10)	Cases. (11)	Persons. (12)	Cases. (13)	Persons. (14)	
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)							(15)
Sukkur ...	{ A ...	9	3	6	7	15	31	40	19	22	9	49	28	71	12
	{ B ...	...	...	50	1,151	3	1,204	1,204	1,204	...	...	...	1,204	1,204	...
	{ C ...	...	25	26	...	...	51	51	...	...	...	...	...	...	...
	Total	9	28	82	1,158	18	1,286	1,295	1,223	1,226	9	49	1,232	1,275	12
Naushahro ...	{ A ...	8	1	3	...	10	14	22	11	20	4	6	15	26	7
	{ B ...	...	...	83	155	...	238	238	238	238	...	...	238	238	...
	{ C ...	...	12	...	...	...	12	12	...	...	...	...	...	...	...
	Total	8	13	86	155	10	264	272	249	258	4	6	253	264	7
Hyderabad ...	{ A ...	4	...	8	1	2	11	15	2	2	3	22	5	24	10
	{ B ...	...	...	50	405	1	456	456	456	456	...	...	456	456	...
	{ C ...	...	...	14	...	...	14	14	...	...	...	...	...	...	...
	Total	4	...	73	406	3	481	485	458	458	3	22	461	480	10
Jerruck ...	{ A ...	1	1	1	...	2	4	5	2	3	2	3	4	6	1
	{ B ...	...	...	24	240	...	264	264	264	264	...	...	264	264	...
	{ C ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	1	1	25	240	2	268	269	266	267	2	3	268	270	1
Total of the Circle	{ A ...	22	5	18	8	29	60	82	34	47	18	80	52	127	30
	{ B ...	...	...	207	1,951	4	2,162	2,162	2,162	2,162	...	...	2,162	2,162	...
	{ C ...	...	37	40	...	...	77	77	...	...	...	...	...	...	...
	GRAND TOTAL	22	42	265	1,959	33	2,299	2,321	2,196	2,209	18	80	2,214	2,283	30

N.B.—A means cases taken into Court.  
 B means cases disposed of under Section 67 of the Indian Forest Act.  
 C means undetected cases.

F. R. DASAI,  
 Conservator of Forests,  
 Sind Circle.

## FOREST DEPARTMENT, SIND CIRCLE.

*Area of Forest tracts protected from Fire during 1895-96.*

Division.	Forest tracts.	Year in which protection commenced.	Area protected during 1894-95.	Area attempted to be protected.	Failures.	Area actually protected.	REMARKS.	
			Acres.	Acres.	Acres.	Acres.		
Sukkur ...	Mirpur ...	Not known ...	44,476	45,625	934	44,691		
	Ghotki ...		30,726	30,820	42	30,778		
	Sadhuja ...		59,437	63,790	409	63,381		
	Abad ...		45,154	45,748	3	45,745		
	Kashmor ...	1895-96 ...	36,171	36,357	.....	36,357		
	Sukkur ...	Not known ...	31,421	31,698	27	31,671		
	Kot Sultan ...	{ 1885-86 ... 1887-88 ... }	34,265	34,265	1	34,264		
Naushahro...	Kandiaro ...	Not known ...	39,250	39,395	9	39,386		
	Sehwan ...		27,003	27,153	183	26,970		
	Larkana ...		38,174	38,268	87	38,181		
	Naushahro Abro	1894-95 ...	29,486	31,612	2	31,610		
	Tigir ...	1895-96 ...	20,196	20,474	.....	20,474		
Hyderabad...	Sakrand ...	Not known ...	9,660	10,160	226	9,934	The old Rano and Miani Ranges have been split up into three Ranges, viz., Sakrand, Hala and Miani.	
	Hala ...		3,731	5,103	139	4,964		
	Miani ...		1,100	1,100	.....	1,100		
	Unarpur ...		12,329	13,050	876	12,174		
Jerruck ...	Viran ...	Do. ...	2,265	2,265	{ ..... 713 115 188 21 .....	2,265	The Viran, Ghorabari, Tatta and Shahbandar Ranges have been re-arranged.	
	Ghorabari...		4,802	4,802		4,089		
	Penah ...		4,844	4,844		4,729		
	Shahbandar ...		2,107	2,107		1,919		
	Mulchand ...		3,441	3,441		3,420		
	Katiar ...		1,603	1,603		1,603		
	Total ...		481,641	493,680	3,975	489,705		

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

FORM No. 54.

FOREST DEPARTMENT, SIND CIRCLE.

Area closed and open to Grazing during 1896-97.

Division.							AREA IN SQUARE MILES											
							Closed to all animals.				Closed to browsers (camels, goats or sheep).				Open to all animals.		Total Area.	
							Whole year.		Part of year.		Whole year.		Part of year.		Whole year.			
							1		2		3		4		5			
							Sqr. miles acres.		Sqr. miles acres.		Sqr. miles acres.		Sqr. miles acres.		Sqr. miles acres.		Sqr. miles acres.	
Sukkur							34	18	22	267	225	46	...	168	27	449	358	
Naushahro							10	113	...	99	480	...	135	47	245	0		
Hyderabad							29	298	...	36	188	...	120	91	185	577		
Jerruck							12	112	...	12	361	...	158	513	188	346		
Total							85	541	22	267	373	425	...	582	38	1,064	1	
Sukkur							...	...	...	...	...	...	0	585	0	585		
Naushahro...							...	...	...	...	...	...	3	427	3	427		

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

## FORM No. 55.

## FOREST DEPARTMENT, SIND CIRCLE.

*Return of Grazing in the State Forests during 1895-96.*

Division.	GRAZING ON PAYMENT.						NUMBER OF ANIMALS.							
	At full rates.						At privileged rates.							
	Buffa- loes.	Cows & Bull- ocks.	Goats and Sheep.	Camels.	Other animals.	Fees receiv- ed.	Buffa- loes.	Cows and Bull- ocks.	Goats and Sheep.	Camels.	Other animals.	Fees received.		
												Actual.	Value at full rates.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
						Rs.						Rs.	Rs.	
Sukkur ...	15,042	18,113	35,108	1,076	600	14,371	10,134	22,980	31,212	531	152	4,312	9,377	
Nausahro ...	11,649	13,659	99,352	1,934	1,651	9,549	...	...	...	...	...	...	...	
Hyderabad ...	15,025	23,659	162,960	2,655	31	17,072	...	...	...	...	...	...	...	
Jerruck ...	11,690	16,795	72,558	3,965	147	12,619	2,133	1,955	402	148	...	547	1,253	
Total ...	53,406	72,226	369,978	9,630	2,429	53,611	12,267	24,935	31,614	679	152	4,859	10,630	

Division.	GRAZING FREE.						NUMBER OF ANIMALS.								Grand Total of value at full rates.
	By right under Settlement.						During pleasure of Government or otherwise than under Settlement.								
	Buffa- loes.	Cows and Bull- ocks.	Goats and Sheep.	Camels.	Other animals.	Value of fees at full rates.	Buffa- loes.	Cows and Bull- ocks.	Goats and Sheep.	Camels.	Other animals.	Value of fees at full rates.	Total value of fees at full rates.		
1	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
						Rs.							Rs.	Rs.	Rs.
Sukkur ...	2,600	13,133	...	...	531	21,327	...	...	...	...	...	...	21,327	45,075	
Nausahro ...	1,460	5,431	...	...	36	3,314	62	336	485	...	519	536	3,850	13,399	
Hyderabad ...	...	...	...	...	...	...	20	38	...	...	...	88	88	17,160	
Jerruck ...	535	836	...	...	18	2,161	36	111	...	...	...	206	2,367	16,239	
Total ...	4,595	19,400	...	...	585	26,802	118	485	485	...	519	830	27,632	91,873	

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.



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FORM No. 56.

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FORM No. 56.  
FOREST DEPARTMENT, SIND CIRCLE.  
*Area of Plantations, 1895-96.*

Area of Plantations, 1895-96.									
Division.	Name of Plantation.	AREA IN ACRES.				RECEIPTS	CHARGES	REMARKS.	
		On 1st July 1896.	Added during the year.	Excluded during the year.	Area on 30th June 1897.	Of the year.			
						Rs.	Rs.		
	<i>Regular Plantations.</i>				10	69	705		
Sukkur ...	Rahuja Nursery ...	10	...	...	...	...	...		
	Sadhuja Plantation ...	34	...	34	...	...	...		
	Sadhuja Nursery ...	...	2	...	2	...	...		
	Ghotki do. ...	3	...	...	3	...	...		
	Adilpur do. ...	...	1	...	1	...	...		
Naushahro ...	Phaka Nursery ...	9	...	...	9	...	...		
Hyderabad ...	Diwi-Divi Plantation ...	13	...	...	13	26	115		
	Bamboo do. ...	13	...	...	13	...	...		
	Miani Bungalow, Mango and Monument Gardens ...	12	...	...	12	254	738		
	Malir Plantation ...	24	...	...	24	32	84		
Jerruck ...	Sonda Nursery ...	5	...	...	5	...	...		
	Total ...	123	3	34	92	381	1,642		
	<i>Cultural Operations.</i>								
Sukkur ...	Bindi Dhareja ...	1,825	384	...	2,209	...	...		
	Shah ...	218	51	...	269	...	...		
	Keti Shah ...	535	320	...	855	...	...		
	Mohro Mari ...	430	743	815	358	...	...	815 acres opened to grazing.	
	Khia Bindi ...	80	130	80	130	...	...	80 „ do. do.	
	Kadrapur ...	1,020	336	400	956	...	...	400 „ do. do.	



Division.	Name of Plantation.	AREA IN ACRES.				RECEIPTS	CHARGES	REMARKS.
		On 1st July 1895.	Added during the year.	Excluded during the year.	Area on 30th June 1896.	Of the year.		
Sukkur— <i>contd.</i>	Garhi Halim ...	225	27	...	252	Rs. ...	Rs. ...	595 acres opened to grazing.  50 do. 100 do. 220 do.
	Lakhi ...	463	27	...	490	...	...	
	Andaldal ...	1,542	85	...	1,627	...	...	
	Bagarji and Ketī Bagarji ...	1,519	355	...	1,874	...	...	
	Kot Sultan ...	201	627	...	828	...	...	
	Bakapur ...	2	35	...	37	...	...	
	Milkiat Sarkar ...	3	10	...	13	...	...	
	Total, Sukkur Division ...	19,067	11,355	5,032	25,390	...	...	
Naushahro ...	Mohbatdero ...	1,605	13	595	1,023	...	...	
	Bhour ...	2,094	22	...	2,116	...	...	
	Kamaldero ...	100	30	50	80	...	...	
	Samtia ...	410	...	100	310	...	...	
	Bhorti ...	749	169	220	698	...	...	
	Dalipota ...	125	...	...	125	...	...	
	Sino Bindi and Band Mari and Abad. ...	...	28	...	28	...	...	
	Karampur ...	222	63	...	285	...	...	
	Khairodero No. I and II ...	480	143	...	623	...	...	
	Lalia and Ketī Lalia ...	5	116	...	121	...	...	
	Bhan ...	58	40	...	98	...	...	
	Kandi Baghban ...	...	8	...	8	...	...	
	Kalubori ...	...	25	...	25	...	...	
	Phaka ...	...	36	...	36	...	...	

	Naoabad and Agani	...	218	...	...	218	...	...	
	Keti Ubhuro	...	121	36	...	157	...	...	
	Amrot	...	110	...	...	110	...	...	
	Bahman	...	10	...	...	10	...	...	
	Dosu	...	80	200	...	280	...	...	
	Kanuri	...	47	10	...	57	...	...	
	Abrepota	...	25	15	...	40	...	...	
	Muso	...	...	25	...	25	...	...	
	Beli Gaji	...	...	20	...	20	...	...	
	Nari	...	5	...	3	2	...	...	3 acres opened to grazing.
	Budhadero	...	4	...	4	...	...	...	4 " " "
	Ghangherko	...	8	...	7	1	...	...	7 " " "
	Soi	...	...	7	...	7	...	...	
	Madeji	...	...	50	...	50	...	...	
	Total, Naushahro Division	...	6,476	1,056	979	6,553	...	...	
Hyderabad ...	Lakhat	...	...	4	...	4	...	...	
	Nasri	...	740	155	...	895	...	...	
	Mad	...	1,231	85	...	1,316	...	...	
	Mahrabpur	...	950	209	...	1,159	...	...	
	Mari	...	2,433	1,296	...	3,729	...	...	
	Keti Jurrio	...	590	238	...	828	...	...	
	Pai	...	...	430	...	430	...	...	
	Amin Lakho	...	...	20	...	20	...	...	
	Rano	...	190	47	...	237	...	...	
	Kunar	...	...	99	...	99	...	...	
	Rishal	...	...	65	...	65	...	...	
	Nurketi	...	490	200	...	690	...	...	
	Bhanot, No. I	...	...	74	...	74	...	...	
	Kari	...	...	39	...	39	...	...	
	Bhanot, No. II	...	...	41	...	41	...	...	
	Khanot	...	490	200	...	690	...	...	
	Ghotana	...	...	49	...	49	...	...	

Division.	Name of Plantation.	AREA IN ACRES.				RECEIPTS	CHARGES	REMARKS.
		On 1st July 1895.	Added during the year.	Excluded during the year.	Area on 30th June 1896.	Of the year.		
						Rs.	Rs.	
Hyderabad— <i>continued.</i>	Salaro ...	150	38	...	188	...	...	
	Murid Rais ...	80	67	...	147	...	...	
	Sekhat and Khebrani ...	50	55	...	105	...	...	
	Matiari and Jakhri ...	2,010	414	...	2,424	...	...	
	Miani ...	976	115	...	1,091	...	...	
	Muhammad Khan ...	181	...	...	181	...	...	
	Kathri ...	380	3	...	383	...	...	
	Ghali ...	40	...	...	40	...	...	
	Butho ...	1,916	212	...	2,128	...	...	
	Lakha ...	...	27	...	27	...	...	
	Manjhand ...	186	58	...	244	...	...	
	Unarpur ...	414	78	...	492	...	...	
	Ghagh ...	140	40	...	180	...	...	
	Keti Khasai ...	161	165	...	326	...	...	
	Giderji ...	238	102	...	370	...	...	
	Shah Makai ...	106	...	...	106	...	...	
	Jam Shoro ...	61	...	...	61	...	...	
	Total ...	14,233	4,625	...	18,858	...	...	
Jerruck ...	Khadi ...	367	165	79	453	...	...	79 acres opened to grazing.
	Budka Takar ...	58	10	...	68	...	...	
	Mulchand ...	400	337	90	647	...	...	90 „ „ „
	Phatah ...	9	...	...	9	...	...	
	Viran ...	316	40	236	120	...	...	236 „ „ „

Sonda	...	318	30	268	80	...	268	..	268	..	..	..
Hilaya	...	248	88	...	336	...	...	...	...	...	...	...
Ialang	...	130	20	...	150	...	...	...	...	...	...	...
Keti Mehrani	...	...	6	...	6	...	...	...	...	...	...	...
Karokhao	...	40	10	...	50	...	...	...	...	...	...	...
Ali Ganj	...	30	30	...	60	...	...	...	...	...	...	...
Shah Lonko	...	239	...	...	239	...	...	...	...	...	...	...
Khokhar	...	630	32	630	32	...	630	..	630	..	..	..
Khathar	...	580	75	...	655	...	...	...	...	...	...	...
Kotfar	...	212	19	...	231	...	...	...	...	...	...	...
Khatro	...	12	...	...	12	...	...	...	...	...	...	...
Tikhur	...	377	30	377	30	...	377	..	377	..	..	..
Husri	...	...	28	...	28	...	...	...	...	...	...	...
Marho Kotri	...	...	41	...	41	...	...	...	...	...	...	...
Garko	...	411	67	...	478	...	...	...	...	...	...	...
Bijora	...	80	46	...	126	...	...	...	...	...	...	...
Bao Purandas	...	605	224	...	829	...	...	...	...	...	...	...
Kacho Surjani	...	504	112	162	454	...	162	..	162	..	..	..
Kot Almo	...	533	70	403	200	...	403	..	403	..	..	..
Huderani	...	381	...	36	345	...	36	..	36	..	..	..
Surjani	...	91	...	...	91	...	...	...	...	...	...	...
Penah	...	415	...	53	362	...	53	..	53	..	..	..
Susati	...	2	...	...	2	...	...	...	...	...	...	...
Khirsar	...	40	...	...	40	...	...	...	...	...	...	...
Hazari	...	385	...	...	385	...	...	...	...	...	...	...
Ali Bahar	...	56	...	...	56	...	...	...	...	...	...	...
Ganj	...	230	...	...	230	...	...	...	...	...	...	...
Kacho Pawhar	...	...	20	...	20	...	...	...	...	...	...	...
Kacho Alah Baksh	...	...	40	...	40	...	...	...	...	...	...	...
Achh Marho	...	...	100	...	100	...	...	...	...	...	...	...
Total	...	7,699	1,640	2,334	7,005	...	...	...	...	...	...	...
Total of Cultural Operations...	...	47,475	18,676	8,345	57,806	...	...	...	...	...	...	...
Total of Regular Plantation...	...	123	3	34	92	381	1,642	...	...	...	...	...
GRAND TOTAL	...	47,598	18,679	8,379	57,898	381	1,642	...	...	...	...	...

- F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

## FORM No. 57.

## FOREST DEPARTMENT, SIND CIRCLE.

*Outturn (in cubic feet, solid) of Timber and Fuel during the year 1896-97 and Agency of Exploitation.*

Division.	TIMBER IN THE ROUGH: LOGS.					TIMBER IN THE ROUGH: POLES.					SAWN OR SQUARED TIMBER.					MISCELLANEOUS.					FUEL.					TOTAL.
	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	
I. Reserved Forests.																										
Sukkur ... ..	537	64,728	2,191	...	67,856	51	5,541	134	...	5,726	...	...	...	...	635	53,480	4,404	...	58,519	45,819	7,090,221	1,148	...	7,137,168	7,269,289	
Nauchahro ... ..	...	16,084	147	...	16,231	...	9,036	2,061	...	11,097	...	...	...	...	...	...	...	...	...	6,091	8,77,221	...	171,281	1,054,593	1,081,921	
Hyderabad ... ..	...	20,250	382	...	20,632	...	49,104	662	...	49,766	...	47,741	...	47,741	...	...	...	...	...	6,456,843	5,940	...	6,462,783	6,580,922		
Jerruck... ..	20	71,681	164	...	71,864	...	14,200	792	...	14,992	...	3,890	...	3,890	...	...	...	...	...	26,293	3,097,249	...	...	3,123,542	3,214,268	
Total ... ..	957	1,72,742	2,894	...	1,76,583	51	77,831	3,649	...	81,581	...	51,631	...	51,631	635	53,480	4,404	...	58,519	78,203	17,521,534	7,088	171,281	17,778,106	18,146,420	
II. Protected Forests.																										
Sukkur ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41	...	...	41	...	...	...	...	...	...	41

Charcoal should be shown by its equivalent in fuel, the quantity of wood consumed in producing it being entered in cubic feet, solid.

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.



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FORM No. 58.

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**FORM No. 58.**  
**FOREST DEPARTMENT, SIND CIRCLE.**  
*Outturn of minor Forest produce.*

Division.	Description of Produce.	PRODUCE REMOVED OR UTILISED									
		By Government agency.		By Purchasers.		By free grants.		By Right-holders.		Total.	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
			Rs.		Rs.		Rs.		Rs.		Rs.
Sukkur	Mango fruit	...	196	...	...	...	...	...	...	...	196
	Babul seed	2 Mds.	2	...	...	...	...	...	...	2 Mds.	2
	Babul pods	...	...	Contract.	583	...	...	...	...	Contract.	583
	Munj reed	...	...	Do.	917	...	...	...	...	Do.	917
	Kanh grass	...	...	Bdles. 8	1	Bdles. 54	3	...	...	Bdles. 62	4
	Dabh grass	...	...	Mds. 686	43	...	...	...	...	Mds. 686	43
	Jhau brushwood	...	...	Bdles. 683	43	Bdles. 58	4	...	...	Bdles. 741	47
	Branches of trees	...	...	C. ft. 55,720	278	...	...	...	...	C. ft. 55,720	278
	Do. do.	...	...	Cart Ls. 201	50	...	...	...	...	Cart Ls. 201	50
	Compensation for damage done to trees	...	...	...	42	...	...	...	...	...	42
	Grazing fees	...	...	...	18,683	...	...	...	...	...	18,683
	Total	...	198	...	20,640	...	7	...	...	...	20,845
Naushahro	Babul pods	...	...	Contract.	767	...	...	...	...	Contract.	767
	Fruit	...	...	Do.	18	...	...	...	...	Do.	18
	Sar reed	...	...	Do.	738	...	...	...	...	Do.	738
	Kanh grass	...	...	...	...	Bdles. 80	5	...	...	Bdles. 80	5
	Jhau brushwood	...	...	Bdles. 1,961	123	Do. 90	6	...	...	Do. 205	129
	Branches of trees	...	...	Do. 497	35	...	...	...	...	Do. 497	35
	Thorns	...	...	...	...	...	...	Bdles. 14,400.	900	Bdles. 14,400	900
	Grazing fees	...	...	...	9,549	...	...	...	...	...	9,549
	Total	...	...	...	11,230	...	11	...	900	...	12,141

Hyderabad	Babul bark	...	...	...	...	Mds.	6	1	...	...	...	Mds.	6	1
	Tooth brushes	...	...	...	...	Do.	206	77	...	...	...	Do.	206	77
	Jhau brushwood	...	...	...	...	Bdles.	182	11	...	...	...	Bdles.	182	11
	Lac	...	...	...	...	Mds.	3	6	...	...	...	Mds.	3	6
	Reed and Kanh grass	...	...	...	...	Bdles.	726	46	Bdles. 228	14	...	Bdles.	954	60
	Compensation for damage done to trees	...	...	...	...	...	...	72	...	...	...	...	...	72
	Grapes	...	...	...	...	...	...	49	...	...	...	...	...	49
	Babul pods	...	...	...	...	Contract.	...	12,587	...	...	...	Contract.	...	12,587
	Kanh grass	...	...	...	...	Do.	...	349	...	...	...	Do.	...	349
	Lac	...	...	...	...	Do.	...	5,410	...	...	...	Do.	...	5,410
	Mangoes	...	...	...	...	Do.	...	215	...	...	...	Do.	...	215
	Babul seed	...	...	...	Mds. 75	...	...	...	...	...	...	Mds. 75	...	51
	Grazing fees	...	...	...	...	...	...	17,072	...	...	...	...	...	17,072
Total					...	...	51	...	35,895	...	14	...	...	35,960
Jerruck	Babul seed	...	...	...	Mds. 265	33	Mds.	2	1	...	...	Mds.	267	34
	Grass	...	...	...	...	...	Contract.	...	32	...	...	Contract.	...	32
	Lac	...	...	...	...	...	Do.	...	133	...	...	Do.	...	133
	Mangoes	...	...	...	...	...	Do.	...	19	...	...	Do.	...	19
	Babul pods	...	...	...	...	...	Do.	...	2,841	...	...	Do.	...	2,841
	Tooth brushes	...	...	...	...	...	Mds.	83	31	...	...	Mds.	83	31
	Jhau brushwood	...	...	...	...	...	Bdles.	179	12	...	...	Bdles.	179	12
	Compensation for damage done to trees	...	...	...	...	...	...	80	...	...	...	...	...	80
	Grazing fees	...	...	...	...	...	...	13,166	...	...	...	...	...	13,166
Total					...	33	...	...	16,315	...	...	...	...	16,348

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

## FORM No. 59.

## FOREST DEPARTMENT, SIND CIRCLE.

Account of Timber and other Produce cut or collected by Government agency and brought to Sale Depôts or sold locally during the year 1896-97.

Particulars.	No. or quantity.	Cubic feet.	TOTAL OF EACH HEAD.		Particulars.	No. or quantity.	Cubic feet.	TOTAL OF EACH HEAD.	
			No. or quantity.	Cubic feet.				No. or quantity.	Cubic feet.
<b>TIMBER.</b>					<b>TIMBER.</b>				
<b>BALANCE AT COMMENCEMENT OF THE YEAR.</b>					<i>Removed by purchasers from Sale Depôts.</i>				
<i>Sale Depôts.</i>					Babul logs ... ..	2	20		
Nil.	...	...	...	...	Bahan logs ... ..	6	38		
					Bahan posts ... ..	82	...		
					Bahan rafters ... ..	602	...		
					Jhau rafters ... ..	668	...	1,360	58
<i>Forest Depôts.</i>					<i>Sold locally.</i>				
Nil.	...	...	...	...	Babul logs ... ..	26	263		
					Bahan logs ... ..	49	307		
					Tali logs ... ..	33	251		
					Babul props ... ..	4,141	...	4,249	821
<i>Sale Depôts.</i>					<i>Confiscated wood sold locally.</i>				
Nil.	...	...	...	...	Tali logs ... ..	8	53	8	53
<i>Forest Depôts.</i>					<i>Used by the Department.</i>				
Nil.	...	...	...	...	Tali logs ... ..	2	25	2	25
<i>Sale Depôts.</i>					<i>Balance at close of the year.</i>				
Nil.	...	...	...	...	<i>Sale Depôts.</i>				
<i>Forest Depôts.</i>					Bahan logs ... ..	27	169		
Babul props ... ..	4,141	...	4,141	...	Bahan posts ... ..	154	...		
					Bahan rafters ... ..	2,200	...	2,381	109
					<i>Forest Depôts.</i>				
<i>Sale Depôts.</i>					Nil.	...	...	...	...
Nil.	...	...	...	...	<i>Sale Depôts.</i>				
<i>Forest Depôts.</i>					Nil.	...	...	...	...
Nil.	...	...	...	...	<i>Forest Depôts.</i>				
<b>Total Balance ...</b>			4,141	...	Nil.	...	...	...	...
<i>Received from the Forests in Sale Depôts.</i>					<i>Sale Depôts.</i>				
Babul logs ... ..	2	20			Nil.	...	...	...	...
Bahan logs ... ..	33	147			<i>Forest Depôts.</i>				
Tali logs ... ..	...	...			Nil.	...	...	...	...
Bahan posts ... ..	236	...			<i>Sale Depôts.</i>				
Bahan rafters ... ..	2,802	...			Nil.	...	...	...	...
Jhau rafters ... ..	668	...			<i>Forest Depôts.</i>				
			3,741	167	Nil.	...	...	...	...
<i>Received in Forest Depôts.</i>					<i>Sale Depôts.</i>				
Babul logs ... ..	26	263			Nil.	...	...	...	...
Bahan logs ... ..	49	307			<i>Forest Depôts.</i>				
Tali logs ... ..	35	276	110	846	Nil.	...	...	...	...
<i>Confiscated wood.</i>					<i>Sale Depôts.</i>				
Tali logs ... ..	8	53	8	53	Nil.	...	...	...	...
					<i>Forest Depôts.</i>				
					Nil.	...	...	...	...
<b>Total Timber ...</b>			8,000	1,066	<b>Total Timber ...</b>			8,000	1,066

Particulars.	No. or quantity.	Cubic feet.	TOTAL OF EACH HEAD.		Particulars.	No. or quantity.	Cubic feet.	TOTAL OF EACH HEAD.	
			No. or quantity.	Cubic feet.				No. or quantity.	Cubic feet.
FIREWOOD, CHARCOAL, &c.					FIREWOOD, CHARCOAL, &c.				
BALANCE AT COMMENCEMENT OF THE YEAR.					Removed by purchasers from Sale Depots.				
Sukkur Division.	Sale Depots.				Sukkur Division.	Sold locally.			
	Firewood... Mds.	5,025	...	775		Firewood ... Mds.	7,004	...	...
	Loco. fuel ... C. ft.	...	...	...		...	...	...	...
			5,025	775					
Forest Depots.	Firewood... Mds.	3,650	...	...	Forest Depots.	Firewood ... Mds.	8,755	...	...
	Babul and other seeds ... "	544	...	...		Charcoal ... "	176	...	120,660
			...	4,194		Loco. fuel ... C. ft.	356	...	...
			...	...		Babul and other seeds Mds.	...	...	...
Naushahro Division.	Sale Depots.				Naushahro Division.	Transferred to Sale Depots.			
	Firewood... Mds.	1,900	...	...		Firewood ... Mds.	50	...	50
	Forest Depots.					Written off—Forest Depots.			
	Firewood ... Mds.	5,239	...	...		...	...	...	...
Forest Depots.	Babul seed ... "	569	...	...	Forest Depots.	Used by the Department.			
			5,808	...		Babul seed ... Mds.	2,989	...	2,989
	Firewood... Mds.	2,569	...	...		BALANCE AT CLOSE OF THE YEAR.			
	Loco. fuel ... C. ft.	...	114,394	...		Sukkur Division.	Sale Depots.		
Babul seed ... Mds.	362	...	2,931	Loco. fuel ... C. ft.	...		775	...	
Sale Depots.				Forest Depots.					
Nil.	...	...	...	Firewood ... Mds.	2,350		...	2,497	
Forest Depots.	Firewood... Mds.	4,088	...	...	Forest Depots.	Babul and other seeds ... "	147	...	...
	Charcoal ... "	201	...	...		Sale Depots.			
	Loco. fuel ... C. ft.	...	7,835	4,694		Nil.		...	...
	Babul seed ... Mds.	405	...	7,835		Forest Depots.			
Total Balance ...			24,581	123,827	Naushahro Division.	Firewood ... Mds.	3,068	...	3,299
Received from Forests in Sale Depots.						Babul seed ... "	231	...	...
Firewood ... Mds.	50	...	50	...		...	...	...	...
Received in Forest Depots.						Sale Depots.			
Forest Depots.	Firewood ... Mds.	1,128	...	...	Hyderabad Division.	Loco. fuel ... C. ft.		...	823
	Loco. fuel ... C. ft.	...	3,125	...		Forest Depots.			
	Babul and other seeds, Mds.	3,101	...	4,229		Firewood ... Mds.	...	...	156
			...	3,125		Babul seed ... "	156	...	156
					Jerruck Division.	Sale Depots.			
						Nil.		...	...
						Forest Depots.			
						Firewood ... Mds.	875	...	...
					Charcoal ... "	25	...	...	...
					Babul seed ... "	1,082	...	1,082	...
Total ...			28,860	126,952	Total ...			28,860	1,26,952

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

## FOREST DEPARTMENT,

*Abstract showing the value of Timber and*

Description of timber and other produce.	ON HAND AT COMMENCEMENT OF THE YEAR.			ON HAND AT CLOSE OF THE YEAR.			DIFFERENCE IN VALUE.	
	No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favour of the year.	Against the year.
<i>Sale Depôts.</i>								
Bahan logs ... ..	...	...	...	27	109	54	...	...
Bahan posts ... ..	...	...	...	154	...	39	...	...
Bahan rafters ... ..	...	...	...	2,200	...	264	...	...
Total ...	...	...	...	2,381	109	357	357	...
<i>Forest Depôts.</i>								
Nil.	...	...	...	...	...	...	...	...
<i>Sale Depôts.</i>								
Firewood ... .. Mds.	5,025	...	904	...	...	...	...	...
Locc. fuel ... .. C. ft.	...	775	36	...	775	36	...	...
Total ...	5,025	775	940	...	775	36	...	904
<i>Forest Depôts.</i>								
Firewood ... .. Mds.	3,650	...	438	2,350	...	282	...	...
Locc. fuel ... .. C. ft.	...	...	...	...	...	...	...	...
Babul and other seeds Mds.	544	...	272	147	...	73	...	...
Total ...	4,194	...	710	2,497	...	355	...	355
<i>Sale Depôts.</i>								
Firewood ... .. Mds.	1,900	...	190	...	...	...	...	190
<i>Forest Depôts.</i>								
Firewood ... .. Mds.	5,239	...	943	3,068	...	265	...	...
Babul seed ... .. Mds.	569	...	355	231	...	145	...	...
Total ...	5,808	...	1,298	3,299	...	410	...	888

Net difference against

No. 60.

SIND CIRCLE.

other produce at Sale Depôts for the year 1896-97.

Description of timber and other produce.		ON HAND AT COMMENCEMENT OF THE YEAR.			ON HAND AT CLOSE OF THE YEAR.			DIFFERENCE IN VALUE.	
		No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favour of the year.	Against the year.
				Rs.			Rs.	Rs.	Rs.
<i>Sale Depôts.</i>									
Nil		...	...	...	...	...	...	...	...
<i>Forest Depôts.</i>									
Babul props...	No.	4,141	...	186	...	...	...	...	186
<i>Sale Depôts.</i>									
Firewood	Mds.	29	...	7	...	...	...	...	...
Loco. fuel	C. ft.	...	823	378	...	823	37	...	...
Total	...	29	823	385	...	823	37	...	348
<i>Forest Depôts.</i>									
Firewood	Mds.	2,569	...	257	...	...	...	...	...
Loco. fuel	C. ft.	...	114,394	2,059	...	...	...	...	...
Babul seed	Mds.	362	...	181	156	...	78	...	...
Total	...	2,931	114,394	2,497	156	...	78	...	2,419
<i>Sale Depôts.</i>									
Firewood	Mds.	...	...	...	...	...	...	...	...
<i>Forest Depôts.</i>									
Firewood	Mds.	4,088	...	552	875	...	91	...	...
Loco. fuel	C. ft.	...	7,835	188	...	...	...	...	...
Charcoal	Mds.	201	...	62	25	...	4	...	...
Babul seed	„	405	...	202	1,082	...	541	...	...
Total	...	4,694	7,835	1,004	1,982	...	636	...	368

the year, Rs. 5,301.

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

## FORM No. 61.

## FOREST DEPARTMENT, SIND CIRCLE.

Summary of Revenue and Expenditure of the different Divisions for the Forest year 1896-97 (1st July 1896 to 30th June 1897).

Budget Heads.	Direction.	Hyderabad Division.	Naushahro Division.	Sukkur Division.	Jerruck Division.	Thar and Parkar Division.	Working Plans Division.	Total for the Forest year 1896-97.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
<b>REVENUE.</b>								
<b>TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—</b>								
a. Timber	...	118 8 6	...	523 11 9	35 15 11	...	...	678 4 2
b. Firewood and charcoal	...	2,265 14 1	497 14 11	619 12 0	722 1 6	2,551 10 11	...	6,657 4 5
c. Grass and other minor produce	...	51 7 10	...	197 14 11	32 8 0	...	...	281 14 9
<b>TOTAL I</b>	...	2,435 13 5	497 14 11	1,341 6 8	790 9 5	2,551 10 11	...	7,617 7 4
<b>TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—</b>								
a. Timber	...	25,576 13 7	5,113 14 6	13,535 9 9	8,148 6 8	281 11 0	...	55,656 7 6
b. Firewood and charcoal	...	34,397 10 11	19,111 1 1	66,249 11 4	23,233 3 0	6 2 0	...	1,42,997 12 4
c. Grazing and fodder grass	...	17,071 10 1	9,549 1 3	18,683 1 9	13,165 11 3	2,585 1 0	...	61,054 9 4
d. Other minor produce	...	18,823 0 2	1,680 12 0	1,956 12 2	3,149 1 0	781 3 0	...	26,390 12 4
<b>TOTAL II</b>	...	98,869 2 9	35,451 12 10	1,00,425 3 0	47,698 5 11	3,654 1 0	...	2,86,099 9 8
<b>—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE</b>								
...	...	...	...	96 12 2	1 0 0	...	...	97 12 2
<b>TOTAL III</b>	...	...	...	96 12 2	1 0 0	...	...	97 12 2
<b>MISCELLANEOUS—</b>								
a. Fines and forfeitures	...	100 0 0	...	30 0 0	...	...	...	130 0 0
b. Refunds	...	...	19 9 0	...	59 10 9	52 4 0	...	131 7 9
c. Other sources	...	1,641 4 4	5,073 5 8	8,420 15 5	2,445 15 1	30 7 0	...	18,220 15 6
<b>TOTAL V</b>	...	1,741 4 4	5,692 14 8	8,450 15 5	2,505 9 10	82 11 0	...	18,482 7 3
<b>GRAND TOTAL REVENUE</b>	...	1,03,046 4 6	41,645 10 5	1,10,323 5 3	50,993 9 2	6,238 6 11	...	3,12,297 4 3
<b>EXPENDITURE.</b>								
<b>A.—Conservancy and Works.</b>								
<b>TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—</b>								
a. Timber	...	80 10 9	...	88 6 3	...	...	...	178 1 0
b. Firewood and charcoal	...	517 1 6	181 7 8	575 0 7	278 0 5	1,834 1 4	...	2,868 10 0
c. Grass and other minor produce	...	...	...	25 6 0	...	...	...	542 7 6
<b>TOTAL A I</b>	...	606 12 3	181 7 8	688 12 10	278 0 5	1,834 1 4	...	3,589 2 6
<b>TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS</b>								
...	...	70 12 0	39 5 3	9 4 0	148 2 0	...	...	267 7 3
<b>TOTAL A II</b>	...	70 12 0	39 5 3	9 4 0	148 2 0	...	...	267 7 3
<b>—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE</b>								
...	...	...	5 4 0	...	...	...	...	5 4 0
<b>TOTAL A III</b>	...	...	5 4 0	...	...	...	...	5 4 0
<b>LIVE STOCK, STORES, TOOLS AND PLANT—</b>								
a. Purchase of cattle	...	...	...	59 0 0	...	...	...	59 0 0
b. Feed and keep of cattle	...	...	...	146 3 4	...	...	...	146 3 4
c. Purchase of stores, tools and plant	150 12 0	198 6 8	48 8 0	159 5 6	144 3 0	...	1,062 12 1	1,763 15 3
<b>TOTAL A VI</b>	150 12 0	198 6 8	41 8 0	364 8 10	144 3 0	...	1,062 12 1	1,969 2 7
<b>—COMMUNICATIONS AND BUILDINGS—</b>								
b. Buildings	...	90 2 4	18 4 0	207 5 1	141 8 0	...	...	457 3 5
c. Other works	...	...	...	700 1 0	...	...	...	700 1 0
<b>TOTAL A VII</b>	...	90 2 4	18 4 0	907 6 1	141 8 0	...	...	1,157 4 5
<b>I.—ORGANISATION, IMPROVEMENT, AND EXTENSION OF FORESTS—</b>								
a. Demarcation	...	...	3 0 0	...	49 1 0	...	188 5 0	240 6 0
b. Working plans	...	315 0 2	27 10 4	152 10 0	79 14 11	...	...	4,155 6 8
c. Sowing and planting	...	853 5 0	79 8 6	2,708 4 5	789 10 10	...	3,619 3 3	4,430 11 3
d. Protection from fire	...	...	...	...	2 0 0	...	...	2 0 0
e. Other works	...	2,251 1 1	858 4 0	543 12 8	2,458 9 4	...	...	6,111 11 1
<b>TOTAL A VIII</b>	...	3,419 6 9	968 4 10	3,404 11 1	3,370 4 1	...	3,807 8 3	14,970 3 0
<b>MISCELLANEOUS—</b>								
Other charges	...	1,030 3 11	542 0 3	409 13 9	324 15 0	...	...	2,307 0 11
<b>TOTAL A IX</b>	...	1,030 3 11	542 0 3	409 13 9	324 15 0	...	...	2,307 0 11
<b>TOTAL A.—CONSERVANCY AND WORKS</b>	150 12 0	5,415 11 11	1,803 2 0	5,784 8 7	4,407 6 0	1,834 1 4	4,870 4 4	24,265 8 8
<b>B.—Establishments.</b>								
<b>SALARIES—</b>								
a. Conservators	7,601 15 0	...	...	...	...	...	...	7,601 15 0
b. Superior officers	5,220 0 0	3,250 0 0	3,600 0 0	4,200 0 0	8,087 13 7	...	6,438 4 5	30,790 2 0
c. Subordinate forest and depot establishments	...	7,553 2 4	7,438 11 8	14,767 7 9	7,310 2 5	238 0 0	...	37,312 8 2
d. Office establishments	4,302 2 5	1,586 0 2	1,289 7 8	1,778 9 2	1,326 4 1	406 2 7	18 0 0	10,608 10 1
e. Deputation and special allowances	...	78 1 6	134 13 5	600 0 0	...	...	...	812 14 11
f. Exchange Compensation Allowance—	...	...	...	...	...	...	...	...
2. Deputy Conservators	...	...	...	...	480 8 0	...	333 14 5	814 6 5
3. Assistant Conservators	...	...	...	...	...	...	419 6 3	419 6 3
<b>TOTAL B I</b>	17,084 1 5	12,472 4 0	12,463 0 9	21,346 0 11	17,204 12 1	644 2 7	7,209 9 1	88,423 14 10
<b>TRAVELLING ALLOWANCES—</b>								
a. Conservators	1,240 0 0	...	...	...	...	...	...	1,240 0 0
b. Superior officers	1,177 4 6	856 4 0	900 0 0	931 2 0	1,440 2 6	...	1,784 9 2	7,089 6 2
c. Subordinate forest and depot establishments	...	658 0 7	773 10 3	1,052 0 9	923 15 3	330 4 6	...	3,735 15 4
d. Office establishments	1,763 1 6	554 14 9	421 3 4	681 0 5	446 1 5	...	9 5 8	3,878 11 1
<b>TOTAL B II</b>	4,180 6 0	2,067 3 4	2,097 13 7	2,664 3 2	2,810 3 2	330 4 6	1,793 14 10	15,944 0 7
<b>—CONTINGENCIES—</b>								
a. Stationery	6 4 3	86 5 0	83 7 4	181 14 0	89 0 0	7 4 0	...	451 2 7
b. Carriage of tents and records	382 14 8	173 7 0	179 0 2	172 8 0	222 3 7	...	167 12 0	1,287 13 5
c. Rents, rates and taxes	360 0 0	220 0 0	240 0 0	163 7 3	252 0 0	...	126 7 3	1,361 14 6
d. Official postage	150 3 9	233 11 6	354 7 6	485 8 0	253 14 0	5 0 0	59 3 0	1,541 15 9
e. Sundries	220 8 8	140 0 9	169 11 2	212 12 4	127 4 3	...	59 5 0	929 10 2
<b>TOTAL B III</b>	1,119 15 4	853 8 3	1,026 10 2	1,216 1 7	944 5 10	12 4 0	402 11 3	5,575 8 5
<b>TOTAL B.—ESTABLISHMENTS</b>	22,384 6 9	15,392 15 7	15,587 8 6	25,226 5 8	20,959 5 1	986 11 1	9,406 3 2	1,08,943 7 10
<b>GRAND TOTAL OF EXPENDITURE</b>	22,535 2 9	20,808 11 6	17,390 10 6	31,010 14 3	25,366 5 7	2,820 12 5	14,276 7 6	1,34,209 0 6

Office of the Accountant General, Bombay,  
Dated 3rd September 1897.E. LAWRENCE,  
Accountant General.



## FORM No. 61.

## FOREST DEPARTMENT, SIND CIRCLE.

## Summary of Revenue and Expenditure of the different Divisions for the Financial year 1896-97.

Budget Heads.	Direction.	Hyderabad Division.	Naushahro Division.	Sukkur Division.	Jerruck Division.	Thar and Parkar Division.	Working Plans Division.	Total for the Financial year 1896-97.	Total Budget Estimate.
<b>REVENUE.</b>									
<b>I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—</b>	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs.
a. Timber	...	147 13 2	...	351 12 8	7 13 0	1,116 14 1	...	507 6 10	550
b. Firewood and charcoal	...	2,406 1 5	893 2 3	922 7 9	1,044 5 4	...	...	82 15 2	11,750
c. Grass and other minor produce	...	43 15 0	...	161 10 5	32 8 0	...	...	238 1 5	300
<b>TOTAL I</b>	...	2,597 13 7	893 2 3	1,435 14 10	1,084 10 8	1,116 14 1	...	7,128 7 5	12,600
<b>II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—</b>	...	...	...	...	...	...	...	...	...
a. Timber	...	32,038 11 2	6,288 1 4	10,593 14 10	6,508 2 9	98 3 0	...	55,527 1 1	59,800
b. Firewood and charcoal	...	44,069 10 10	24,790 4 7	61,382 11 3	29,906 11 11	6 2 0	...	1,60,155 8 7	1,95,800
c. Grazing and fodder grass	...	16,314 13 1	9,513 2 8	19,193 5 8	12,918 0 9	2,987 6 11	...	60,896 12 8	59,300
d. Other minor produce	...	18,936 7 2	1,773 6 0	1,545 11 8	5,896 3 8	745 14 0	...	28,697 10 6	26,500
<b>TOTAL II</b>	...	1,11,359 10 3	42,364 14 2	92,715 11 5	55,029 3 1	3,807 9 11	...	3,05,277 0 10	3,40,400
<b>III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE</b>	...	...	0 12 0	99 12 2	10 0 0	...	...	110 8 2	...
<b>TOTAL III</b>	...	...	0 12 0	99 12 2	10 0 0	...	...	110 8 2	...
<b>V.—MISCELLANEOUS—</b>	...	...	...	...	...	...	...	...	...
a. Fines and Forfeitures	...	100 0 0	...	30 0 0	...	...	...	130 0 0	...
b. Refunds	...	3 2 1	18 14 4	...	50 10 8	55 9 4	118 1 4	255 5 9	...
c. Other sources	...	1,551 13 3	5,506 12 7	9,635 14 6	2,491 1 8	...	...	19,185 10 0	20,800
<b>TOTAL V</b>	...	1,654 15 4	5,525 10 11	9,665 14 6	2,550 12 4	55 9 4	118 1 4	19,570 15 9	20,800
<b>GRAND TOTAL REVENUE</b>	...	1,15,612 7 2	48,784 7 4	1,03,917 4 11	58,674 10 1	4,980 1 4	118 1 4	3,32,087 0 2	3,73,500
<b>EXPENDITURE.</b>									
<b>A.—Conservancy and Works.</b>									
<b>I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—</b>	...	...	...	...	...	...	...	...	...
a. Timber	...	89 10 9	...	46 12 1	...	...	...	136 6 10	1,125
b. Firewood and charcoal	...	13 1 0	205 0 1	589 8 7	325 13 5	1,148 5 2	...	2,281 12 3	8,225
c. Grass and other minor produce	...	529 5 4	...	25 0 0	...	...	...	554 5 4	600
<b>TOTAL A I</b>	...	632 1 1	205 0 1	661 4 8	325 13 5	1,148 5 2	...	2,972 8 5	9,800
<b>II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.</b>	...	43 6 0	35 3 0	9 4 0	148 2 0	...	...	235 15 0	100
<b>TOTAL A II</b>	...	43 6 0	35 3 0	9 4 0	148 2 0	...	...	235 15 0	100
<b>VI.—LIVE-STOCK, STORES, TOOLS AND PLANT—</b>	...	...	...	...	...	...	...	...	...
a. Purchase of cattle	...	...	...	50 0 0	...	...	...	50 0 0	250
b. Feed and keep of cattle	...	...	...	135 6 10	...	...	...	135 6 10	125
c. Purchase of stores, tools and plant	135 12 0	182 6 8	49 6 0	165 12 0	144 11 0	...	861 5 7	1,539 5 3	1,325
<b>TOTAL A VI</b>	135 12 0	182 6 8	49 6 0	360 2 10	144 11 0	...	861 5 7	1,733 12 1	1,700
<b>VII.—COMMUNICATIONS AND BUILDINGS—</b>	...	...	...	...	...	...	...	...	...
a. Roads and bridges	...	...	...	...	...	...	...	...	50
b. Buildings	...	90 2 4	18 4 0	189 2 6	122 0 0	...	...	419 8 10	1,290
c. Other works	...	...	...	750 0 0	...	...	...	750 0 0	700
<b>TOTAL A VII</b>	...	90 2 4	18 4 0	939 2 6	122 0 0	...	...	1,169 8 10	2,100
<b>VIII.—ORGANISATION, IMPROVEMENT, AND EXTENSION OF FORESTS—</b>	...	...	...	...	...	...	...	...	...
a. Demarcation	...	...	392 10 2	751 0 11	97 1 0	...	188 5 0	1,129 7 1	200
b. Working plans	...	573 2 2	172 4 0	421 4 0	176 12 8	...	2,786 14 1	4,130 4 11	6,700
c. Sowing and planting	...	709 1 0	70 6 6	2,071 1 0	501 2 8	...	...	4,050 11 2	4,400
d. Protection from fire	...	...	...	...	2 0 0	...	...	2 0 0	...
e. Other works	...	2,177 6 6	594 14 8	405 12 2	2,584 16 2	...	...	6,152 13 6	8,200
<b>TOTAL A VIII</b>	...	3,549 6 8	1,539 3 4	4,039 8 1	3,361 15 6	...	2,975 3 1	15,465 4 8	20,500
<b>IX.—MISCELLANEOUS—</b>	...	...	...	...	...	...	...	...	...
b. Other charges	...	2,042 5 7	546 12 3	396 6 6	328 14 6	...	...	3,314 6 10	2,050
<b>TOTAL A IX</b>	...	2,042 5 7	546 12 3	396 6 6	328 14 6	...	...	3,314 6 10	2,050
<b>TOTAL A.—CONSERVANCY AND WORKS</b>	135 12 0	6,539 12 4	2,393 12 8	6,405 12 7	4,431 8 5	1,148 8 2	3,836 8 8	24,891 7 10	35,650
<b>B.—Establishments.</b>									
<b>I.—SALARIES—</b>	...	...	...	...	...	...	...	...	...
a. Conservators	5,576 10 8	...	...	...	...	...	...	5,576 10 8	...
b. Superior officers	6,270 0 0	3,000 0 0	4,050 0 0	4,730 10 4	7,531 2 11	...	4,075 6 0	30,557 3 3	33,000
c. Subordinate forest and depot establishments	...	7,559 0 7	7,581 4 5	14,681 3 9	7,042 13 2	238 0 0	...	37,112 5 11	39,400
d. Office establishments	4,261 14 10	1,547 13 6	1,281 8 9	1,780 2 10	1,320 4 4	396 0 0	18 0 9	10,605 12 3	10,638
e. Deputation and special allowances	...	79 1 6	243 8 9	600 0 0	...	...	...	921 10 3	1,000
f. Exchange compensation allowance—	...	...	...	...	...	...	...	...	800
(3) Deputy Conservators	...	...	...	12 8 3	261 4 4	...	171 4 4	445 0 7	...
(3) Assistant Conservators	...	...	59 13 4	59 13 4	...	...	479 3 7	598 14 3	...
<b>TOTAL B I</b>	10,108 9 6	13,214 15 7	13,216 3 3	21,944 6 0	10,155 8 5	634 0 0	5,043 13 11	85,817 9 2	84,432
<b>II.—TRAVELLING ALLOWANCES—</b>	...	...	...	...	...	...	...	...	...
a. Conservators	1,006 10 8	...	...	...	...	...	...	1,006 10 8	...
b. Superior officers	1,410 9 10	693 5 7	991 15 0	1,136 1 7	1,319 2 6	...	1,559 9 2	7,110 11 8	8,700
c. Subordinate forest and depot estabts.	...	0 5 5 3	811 2 0	1,029 1 3	883 15 3	273 4 6	...	3,652 12 3	3,430
d. Office establishments	1,692 14 6	555 1 4	427 9 9	676 8 8	436 1 5	...	9 5 8	3,797 9 4	3,900
<b>TOTAL B II</b>	4,110 3 0	1,903 12 2	2,230 10 9	2,841 11 6	2,639 3 2	273 4 6	5,568 14 10	15,567 11 11	16,000
<b>III.—CONTINGENCIES—</b>	...	...	...	...	...	...	...	...	...
a. Stationery	...	3 10 0	83 9 3	82 14 10	188 7 6	0 0 6	...	457 14 1	610
b. Carriage of tents and records	...	360 8 6	185 1 3	189 14 0	175 2 8	...	103 11 0	1,264 8 4	1,250
c. Rents, rates and taxes	...	360 0 0	240 0 0	240 0 0	164 3 3	...	127 7 3	1,382 10 6	1,480
d. Official postage	...	181 3 9	261 11 6	339 15 0	487 11 6	5 0 0	38 14 0	1,597 3 9	1,650
e. Sundries	...	276 15 4	112 10 6	194 15 7	222 5 5	4 13 3	44 0 6	1,045 2 11	1,378
<b>TOTAL B III</b>	1,182 5 7	916 0 6	1,047 11 5	1,237 14 4	1,031 4 3	18 13 9	313 0 9	5,747 2 7	6,368
<b>TOTAL B.—ESTABLISHMENTS</b>	21,401 2 1	15,034 12 3	16,494 9 5	25,924 0 4	19,825 15 10	926 2 3	7,525 13 6	1,07,132 7 8	1,06,800
<b>GRAND TOTAL OF EXPENDITURE</b>	21,536 14 1	21,574 8 7	18,888 6 1	32,329 12 11	24,257 8 3	2,074 7 5	11,362 6 2	1,32,023 15 6	1,42,450

Forwarded to the Conservator of Forests, Sind Circle.

Office of the Accountant General, Bombay,  
Dated 10th August 1897.E. LAWRENCE,  
Accountant General.

FORM No. 62.  
 FOREST DEPARTMENT, SIND CIRCLE.  
*Annual Account Current for the Forest year 1896-97 (July 1896 to June 1897).*

	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
To opening Balance ... ..	...	204 6 2	1. Refunds and Drawbacks—Refunds— Divided Heads, Forest ... ..	...	1,654 9 0
VIII. Assessed Taxes—Income Tax— Deductions by Government from Salaries and Pensions ... ..	...	1,102 12 6	11. Forest (as per summary) ... ..	...	1,31,209 0 6
IX. Forest (as per summary) ... ..	...	3,12,297 4 3	Savings Banks Deposit— Interest on Forest Officers' Provident Fund ... ..	...	24 9 5
XXV. Miscellaneous— Sale-proceeds of Stores and Materials (Provincial) ... ..	...	0 6 0	Revenue Deposits (Forests) ... ..	...	17,639 15 6
Bombay Uncovenanted Service F. P. Fund— Widows' Branch ... ..	...	77 13 4	Advances Recoverable— Forest Advances ... ..	48,642 14 7	
Revenue Deposits (Forest) ... ..	...	18,400 1 10	Tentage Advances ... ..	...	
Advances Recoverable— Forest Advances ... ..	51,758 13 4		Objection Book Advances... ..	507 0 0	49,149 14 7
Tentage Advances ... ..	817 0 0	52,575 13 11	Cash Recoveries ... ..	...	2,656 1 0
Objection Book Advances ... ..	...	...	Cheques and Bills (Forests Cheque cancelled) ... ..	...	1,291 4 1
Cash Recoveries ... ..	...	2,656 1 0	Forest Remittances— Remittances to Treasuries ... ..	3,21,829 8 4	
Cheques and Bills (Departmental cheques), Forest ... ..	...	1,40,909 6 4	Inter-Departmental Transfers ... ..	...	3,21,829 8 4
Forest Remittances— Remittances to Treasuries ... ..	85 14 7		Accounts Current— Account between Bombay and Military, Bombay— IV. Items adjustable by Military ... ..	...	7 7 9
Inter-departmental Transfers ... ..	744 14 0	830 12 7	Account between Bombay and P. W. D., Bombay (Ordinary Branches)— IV. Items adjustable by P. W. D.— Inter-departmental Transfers ... ..	606 3 3	
Account between India and Bombay— III. Items adjustable by India—	...	...	Miscellaneous ... ..	19 10 4	825 13 7
Account between Bombay and P. W. D, Bombay— IV. Payments into Treasuries by Civil Officers on account of P. W. D. ... ..	...	212 15 3	Account between Bombay and P. W. D. (Railway Branch), N.-W. Railway— IV. Items adjustable by P. W. D. ... ..	...	
Miscellaneous ... ..	...	...	Closing Balance ... ..	...	274 1 7
Forest Officers' Provident Fund ... ..	...	2,294 7 9	Total ... ..	...	5,29,562 4 4
Total ... ..	...	5,29,562 4 4			

No.  $\frac{F}{15455}$

Forwarded to the Conservator of Forests, Sind Circle, under Sections 265, 267 and 268 of the Forest Department Code.

*Accountant General's Office,*  
*Bombay, 3rd September 1897.* }

E. LAWRENCE,  
 Accountant General.

**FORM No. 62.**  
**FOREST DEPARTMENT, SIND CIRCLE.**  
*Annual Account Current for the Financial year 1896-97.*

	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.
To opening Balance ... ..	...	161 12 11	1. Refunds and Drawbacks—Refunds— Divided Heads, Forest ... ..	...	1,064 8 0
VIII. Assessed Taxes—Income Tax— Deductions by Government from Salaries and Pensions ... ..	...	1,055 6 11	11. Forest (as per summary) ... ..	...	1,32,023 15 6
IX. Forest (as per summary) ... ..	...	3,32,087 0 2	14. Interest—Interest on other obligations— Savings Bank Deposits ... ..	...	...
XIV. Interest— Interest on arrears of Revenue ... ..	...	...	Interest on Forest Officer's Provident Fund Revenue Deposits (Forests, ... ..	...	24 0 5
XXV. Miscellaneous— Sale-proceeds of Stores and Materials ... ..	...	0 6 0	Cheques and Bills (Forest cheques cancelled) ... ..	...	17,813 5 8
Unclaimed deposits, Other deposits ... ..	...	...	Advances Recoverable— Forest Advances ... ..	44,113 10 1	1,233 0 0
Revenue Deposits (Forest) ... ..	...	16,605 4 2	Tentage Advances ... ..	...	...
Cheques and Bills (Departmental cheques), Forests ... ..	...	1,36,972 7 7	Objection Book Advances ... ..	522 0 0	44,635 10 1
Advances Recoverable— Forest Advances ... ..	49,865 15 5	...	Cash Recoveries ... ..	...	2,642 13 0
Tentage Advances ... ..	...	...	Forest Remittances— Remittances to Treasuries ... ..	3,42,063 14 11	...
Objection Book Advances ... ..	823 0 0	50,638 15 5	Inter-departmental Transfers ... ..	...	3,42,063 14 11
Cash Recoveries ... ..	...	2,642 13 0	Account Current— Account between Bombay and Military, Bombay— IV. Items adjustable by Military ... ..	...	7 7 9
Forest Remittances— Remittances to Treasuries ... ..	83 11 7	...	Account between Bombay and P. W. D., Bombay (Ordinary Branches)— IV. Items adjustable by P. W. D. ... ..	...	...
Inter-departmental Transfers ... ..	744 14 0	62 10 0	Inter-departmental charges ... ..	780 11 2	...
Bombay Unconvenanted Service, F. P. Fund— Widows' Branch ... ..	...	...	Miscellaneous ... ..	19 10 4	...
Account between India and Bombay— III. Items adjustable by India— Miscellaneous ... ..	...	9 6 0	Account between Bombay and P. W. D. (Railway Branch), N.-W. Railway— IV. Items adjustable by P. W. D. ... ..	...	800 5 6
Bengal Military Orphan Fund ... ..	...	...			
Bengal U. S. F. Pension Fund ... ..	...	...			
Account between Bombay and P. W. D., Bombay— IV. Payments into Treasuries by Civil Officers on account of P. W. D. ... ..	...	264 7 9			
Forest Officers' Provident Fund ... ..	...	1,529 1 5			
Total Rs... ..	...	5,42,997 14 11	Closing Balance ... ..	...	99 5 1
			Total Rs... ..	...	5,42,997 14 11

No.  $\frac{F}{13372}$

Forwarded to the Conservator of Forests, Sind Circle, under Section 267 of the Forest Code.

*Accountant General's Office, }  
Bombay, 15th August 1897. }*

**E. LAWRENCE,**  
**Accountant General.**

## FOREST DEPARTMENT, SIND CIRCLE.

Revenue received and Outstandings on account of Revenue during the Forest year 1896-97.

Division.	Particulars.	Outstandings at commence- ment of year.	Value of Sales and other Revenue during year.	Total.	Amount re- alised during year.	Balance due to the Department at end of year.	Remarks.
	I.—Timber and other produce removed from the forests by Government agency—	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
	(a) Timber ... ..	.....	523 11 9	523 11 9	523 11 9	.....	
	(b) Firewood and charcoal ... ..	.....	619 12 0	619 12 0	619 12 0	.....	
	(c) Grass and other minor produce ... ..	.....	197 14 11	197 14 11	197 14 11	.....	
Salt...	II.—Timber and other produce removed from the forests by consumers or purchasers—						The outstandings under V.C. at the close of the year amount to Rs. 1,048-8-0.
	(a) Timber ... ..	3,000 0 0	13,535 9 9	16,535 9 9	13,535 9 9	3,000 0 0	
	(b) Firewood and charcoal ... ..	12,000 0 0	63,694 2 6	75,694 2 6	66,249 11 4	9,441 7 2	
	(d) Grazing and fodder grass ... ..	.....	18,683 1 9	18,683 1 9	18,683 1 9	.....	
	(e) Other minor produce ... ..	.....	2,396 1 2	2,396 1 2	1,956 2 2	439 5 0	
	III.—Drift and waif wood and confiscated forest produce ... ..	.....	96 12 2	96 12 8	96 12 2	.....	
	Total ...	15,000 0 0	99,747 2 0	1,14,747 2 0	1,01,863 5 10	12,883 12 2	
	I.—Timber and other produce removed from the forests by Government agency—						
	(a) Timber ... ..	.....	.....	.....	.....	.....	
	(b) Firewood and charcoal ... ..	21 14 2	489 1 9	510 15 11	497 14 11	13 1 0	
	(c) Grass and other minor produce ... ..	.....	.....	.....	.....	.....	
Naushahro	II.—Timber and other produce removed from the forests by consumers and purchasers—						The outstandings under V.C. at close of the year amount to Rs. 1,309.
	(a) Timber ... ..	1,100 0 0	5,013 14 6	6,113 14 6	5,113 14 6	1,003 0 0	
	(b) Firewood and charcoal ... ..	4,400 0 0	19,711 1 1	24,111 1 1	19,111 1 1	5,000 0 0	
	(d) Grazing and fodder grass ... ..	.....	9,549 1 3	9,549 1 3	9,549 1 3	.....	
	(e) Other minor produce ... ..	695 11 0	1,302 14 0	1,998 9 0	1,680 12 0	317 13 0	
	III.—Drift and waif wood and confiscated forest produce ... ..	.....	.....	.....	.....	.....	
	Total ...	6,217 9 2	36,066 0 7	42,283 9 9	35,952 11 9	6,330 14 0	
	I.—Timber and other produce removed from the forests by Government agency—						
	(a) Timber ... ..	.....	118 8 6	118 8 6	118 8 6	.....	
	(b) Firewood and charcoal ... ..	30 0 0	2,235 13 1	2,265 13 1	2,265 13 1	.....	
	(c) Grass and other minor produce ... ..	.....	51 7 10	51 7 10	51 7 10	.....	
Hyderabad	II.—Timber and other produce removed from the forests by Government agency—						The outstandings under V.C. at close of the year amount to Rs. 927.
	(a) Timber ... ..	6,100 0 0	34,876 13 7	40,976 13 7	28,576 13 7	12,400 0 0	
	(b) Firewood and charcoal ... ..	9,150 0 0	43,847 10 11	52,997 10 11	34,397 10 11	18,600 0 0	
	(d) Grazing and fodder grass ... ..	.....	17,087 4 7	17,087 4 7	17,071 10 1	15 10 6	
	(e) Other minor produce ... ..	7,851 8 0	27,386 8 2	28,238 0 2	18,823 0 2	9,415 0 0	
	III.—Drift and waif wood and confiscated forest produce ... ..	.....	.....	.....	.....	.....	
	Total ...	23,131 8 0	1,18,604 2 8	1,41,735 10 8	1,01,305 0 2	40,430 10 6	

Jerruck ...	I.—Timber and other produce removed from the forests by Government agency—																							
	(a)	Timber	...	...	...	...	.....			35	15	11	35	15	11	.....								
	(b)	Firewood and charcoal	...	...	...	...	.....			722	1	6	722	1	6	.....								
	(c)	Grass and other minor produce	...	...	...	...	.....			32	8	0	32	8	0	.....								
	II.—Timber and other produce removed from the forests by consumers or purchasers—																							
	(a)	Timber	...	...	...	...	.....			8,148	6	8	8,148	6	8	.....								
	(b)	Firewood and charcoal	...	...	...	...	7,750	0	0	27,134	5	7	34,884	5	7	23,233	3	0	11,651	2	7			
	(d)	Grazing and fodder grass	...	...	...	...	.....			13,165	11	3	13,165	11	3	13,165	11	3	.....					
	(e)	Other minor produce	...	...	...	...	2,174	0	0	4,928	1	0	7,102	1	0	3,149	1	0	3,953	0	0			
	III.—Drift and waif wood and confiscated forest produce																							
Total										9,924	0	0	54,168	1	11	64,092	1	11	48,487	15	4	15,604	2	7
Thar and Parkar.	I.—Timber and other produce removed from the forests by Government agency—																							
	(a)	Timber	...	...	...	...	.....			.....			.....			.....			.....					
	(b)	Firewood and charcoal	...	...	...	...	.....			2,551	10	11	2,551	10	11	2,551	10	11	.....					
	II.—Timber and other produce removed from the forests by consumers or purchasers—																							
	(a)	Timber	...	...	...	...	.....			281	11	0	281	11	0	281	11	0	.....					
	(b)	Firewood and charcoal	...	...	...	...	.....			6	2	0	6	2	0	6	2	0	.....					
	(d)	Grazing and fodder grass	...	...	...	...	.....			2,585	1	0	2,585	1	0	25,85	1	0	.....					
	(e)	Other minor produce	...	...	...	...	.....			781	3	0	781	3	0	781	3	0	.....					
	III.—Drift and waif wood and confiscated forest produce																							
	Total										.....			6,205	11	11	6,205	11	11	6,205	11	11	.....	
Total of the Circle.	I.—Timber and other produce removed from the forests by Government agency—																							
	(a)	Timber	...	...	...	...	.....			678	4	2	678	4	2	678	4	2	.....					
	(b)	Firewood and charcoal	...	...	...	...	51	14	2	6,618	7	3	6,670	5	5	6,657	4	5	13	1	0			
	(c)	Grass and other minor produce	...	...	...	...	.....			281	14	9	281	14	9	281	14	9	.....					
	II.—Timber and other produce removed from the forests by consumers or purchasers—																							
	(a)	Timber	...	...	...	...	10,200	0	0	61,856	7	6	72,056	7	6	55,656	7	6	16,400	0	0			
	(b)	Firewood and charcoal	...	...	...	...	33,300	0	0	1,54,393	6	1	1,87,693	6	1	1,42,997	12	4	44,695	9	9			
	(d)	Grazing and fodder grass	...	...	...	...	.....			61,070	3	10	61,070	3	10	61,054	9	4	15	10	6			
	(e)	Other minor produce	...	...	...	...	10,721	3	0	29,794	11	4	40,515	14	4	26,390	12	4	14,125	2	0			
	III.—Drift and waif wood and confiscated forest produce																							
Total										54,273	1	2	3,14,791	3	1	3,69,064	4	3	2,93,814	13	0	75,249	7	3

The outstandings under V. C. at close of the year amount to Rs. 3,284-8-0.

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

## FORM No. 63.

## FOREST DEPARTMENT, SIND CIRCLE DIVISION.

## Revenue received and Outstandings on account of Revenue during the Financial year 1896-97.

Division.	Particulars.	Outstandings at commence- ment of year.	Value of sales and other Revenue during year.	Total.	Amount re- alised during year.	Balance due to the Department at end of year.	Remarks.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Sukkur	I.—Timber and other produce removed from the forests by Government agency—						The outstandings under V. C. at close of the year amount to Rs. 136-2-3.
	(a) Timber ...	.....	351 12 8	351 12 8	351 12 8	.....	
	(b) Firewood and charcoal ...	261 4 6	661 3 3	922 7 9	922 7 9	.....	
	(c) Grass and other minor produce ...	.....	161 10 5	161 10 5	161 10 5	.....	
	II.—Timber and other produce removed from the forests by consumers or purchasers—						
	(a) Timber ...	5,000 0 0	13,593 14 10	18,593 14 10	10,593 14 10	8,000 0 0	
	(b) Firewood and charcoal ...	24,000 0 0	66,716 0 7	90,716 0 7	61,382 11 3	29,333 5 4	
	(d) Grazing and fodder grass ...	.....	19,193 5 8	19,193 5 8	19,193 5 8	.....	
	(e) Other minor produce ...	.....	1,667 1 8	1,667 1 8	1,545 11 8	121 6 0	
	III.—Drift and waif wood and confiscated forest produce ...	.....	99 12 2	99 12 2	99 12 2	.....	
	Total ...	29,261 4 6	1,02,144 13 3	1,31,706 1 9	94,251 6 5	37,454 11 4	
Mausahro.	I.—Timber and other produce removed from the forests by Government agency—						The outstandings under V. C. at close of the year amount to Rs. 724.
	(a) Timber ...	.....	.....	.....	.....	.....	
	(b) Firewood and charcoal ...	471 5 1	523 13 4	995 2 5	893 2 3	102 0 2	
	(c) Grass and other minor produce ...	.....	.....	.....	.....	.....	
	II.—Timber and other produce removed from the forests by consumers or purchasers—						
	(a) Timber ...	2,200 0 0	5,088 1 4	7,288 1 4	6,288 1 4	1,000 0 0	
	(b) Firewood and charcoal ...	8,892 9 6	20,897 11 1	29,790 4 7	24,790 4 7	5,000 0 0	
	(d) Grazing and fodder grass ...	.....	9,513 2 3	9,513 2 3	9,513 2 3	.....	
	(e) Other minor produce ...	543 0 0	2,025 6 0	2,568 6 0	1,773 6 0	795 0 0	
	III.—Drift and waif wood and confiscated forest produce ...	.....	0 12 0	12 0	12 0	.....	
	Total ...	12,106 14 7	38,048 14 0	50,155 12 7	43,258 12 5	6,897 0 2	
Hyderabad.	I.—Timber and other produce removed from the forests by Government agency—						The outstandings under V. C. at close of the year amount to Rs. 927.
	(a) Timber ...	27 0 8	120 12 6	147 13 2	147 13 2	.....	
	(b) Firewood and charcoal ...	36 0 0	2,388 1 5	2,424 1 5	2,406 1 5	18 0 0	
	(c) Grass and other minor produce ...	.....	43 15 0	43 15 0	43 15 0	.....	
	II.—Timber and other produce removed from the forests by consumers or purchasers—						
	(a) Timber ...	12,200 0 0	32,238 11 2	44,438 11 2	32,038 11 2	12,400 0 0	
	(b) Firewood and charcoal ...	18,300 0 0	44,369 10 10	62,669 10 10	44,069 10 10	18,600 0 0	
	(d) Grazing and fodder grass ...	.....	16,330 7 7	16,330 7 7	16,314 13 1	15 10 6	
	(e) Other minor produce ...	12,504 0 0	20,230 7 2	32,734 7 2	18,936 7 2	13,798 0 0	
	III.—Drift and waif wood and confiscated forest produce ...	.....	.....	.....	.....	.....	
	Total ...	43,067 0 8	1,15,722 1 8	1,58,789 2 4	1,13,957 7 10	44,831 10 6	

Jerruck ...	I.—Timber and other produce removed from the forests by Government agency—											
	(a) Timber	...	...	...	...	...	.....	7 13 0	7 13 0	7 13 0	.....	
	(b) Firewood and charcoal	...	...	...	...	...	54 1 3	990 4 5	1,044 5 8	1,044 5 8	.....	
	(c) Grass and other minor produce	...	...	...	...	...	.....	32 8 0	32 8 0	32 8 0	.....	
	II.—Timber and other produce removed from the forests by consumers or purchasers—											
	(a) Timber	...	...	...	...	...	.....	8,548 15 0	8,548 15 0	6,508 2 9	2,040 12 3	
	(b) Firewood and charcoal	...	...	...	...	...	15,500 0 0	19,590 1 2	35,090 1 2	29,906 11 11	5,183 5 3	
	(d) Grazing and fodder grass	...	...	...	...	...	.....	12,918 0 9	12,918 0 9	12,918 0 9	.....	
	(e) Other minor produce	...	...	...	...	...	719 0 0	8,930 3 8	9,649 3 8	5,696 3 8	3,953 0 0	
	III.—Drift and waif wood and confiscated forest produce						.....	10 0 0	10 0 0	00 0	.....	
Total						16,273 1 3	51,027 14 0	67,300 15 3	56,123 13 9	11,177 1 6		
Thar and Parkar.	I.—Timber and other produce removed from the forests by Government agency—											
	(a) Timber	...	...	...	...	...	.....	.....	.....	.....	.....	
	(b) Firewood and charcoal	...	...	...	...	...	655 15 4	912 13 6	1,568 12 10	1,116 14 1	451 14 9	
	(c) Grass and other minor produce	...	...	...	...	...	.....	.....	.....	.....	.....	
	II.—Timber and other produce removed from the forests by consumers or purchasers—											
	(a) Timber	...	...	...	...	...	.....	98 3 0	98 3 0	98 3 0	.....	
	(b) Firewood and charcoal	...	...	...	...	...	.....	6 2 0	6 2 0	6 2 0	.....	
	(d) Grazing and fodder grass	...	...	...	...	...	.....	2,957 6 11	2,957 6 11	2,957 6 11	.....	
	(e) Other minor produce	...	...	...	...	...	.....	745 14 0	745 14 0	745 14 0	.....	
	III.—Drift and waif wood and confiscated forest produce						.....	.....	.....	.....	.....	
Total						655 15 4	4,720 7 5	5,376 6 9	4,924 8 0	451 14 9		
Total, of the Sind Circle.	I.—Timber and other produce removed from the forests by Government agency—											
	(a) Timber	...	...	...	...	...	27 0 8	480 6 2	507 6 10	507 6 10	.....	
	(b) Firewood and charcoal	...	...	...	...	...	1,478 10 2	5,476 3 11	6,954 14 1	6,382 15 2	571 14 11	
	(c) Grass and other minor produce	...	...	...	...	...	.....	238 1 5	238 1 5	238 1 5	.....	
	II.—Timber and other minor produce removed from the forests by consumers or purchasers—											
	(a) Timber	...	...	...	...	...	19,400 0 0	59,567 13 4	78,967 13 4	55,527 1 1	23,440 12 3	
	(b) Firewood and charcoal	...	...	...	...	...	66,692 9 6	1,51,579 9 8	2,18,272 3 2	1,60,155 8 7	58,116 10 7	
	(d) Grazing and fodder grass	...	...	...	...	...	.....	60,912 7 2	60,912 7 2	60,896 12 8	15 10 6	
	(e) Other minor produce	...	...	...	...	...	13,766 0 0	33,599 0 6	47,365 0 6	28,697 10 6	18,667 6 0	
	III.—Drift and waif wood and confiscated forest produce						.....	110 8 2	110 8 2	110 8 2	.....	
Total						1,01,364 4 4	3,11,964 2 4	4,13,328 6 8	3,12,516 0 5	1,00,812 6 3		

The outstandings under V.  
C. at close of the year  
amount to Rs. 1,787-2-3.

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

FORM No. 64.

FOREST DEPARTMENT, SIND CIRCLE.

*Outstandings and Liabilities on account of Contractors and Disbursers for the Forest year 1896-97 (July 1896 to June 1897).*

Division.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE.		Remarks.
	At commencement of Forest year July 1895 to June 1896.	Recoveries in cash and value of supplies and work done during Forest year 1896-97.	At close of Forest year 1896-97.	At commencement of Forest year 1896-97.	Payments made during Forest year 1896-97.	At close of Forest year 1896-97.	To Department (outstandings).	By Department (liabilities).	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
<i>Contractors.</i>									
Direction ...	.....	50 0 0	50 0 0	.....	50 0 0	50 0 0	.....	.....	
Naushahro ...	.....	15 0 0	15 0 0	.....	15 0 0	15 0 0	.....	.....	
Jerruck ...	.....	84 4 0	84 4 0	110 4 0	.....	110 4 0	26 0 0	.....	
Working Plans ...	.....	100 0 0	100 0 0	.....	100 0 0	100 0 0	.....	.....	
Total Contractors ...	.....	249 4 0	249 4 0	110 4 0	165 0 0	275 4 0	26 0 0	.....	
<i>Disbursers.</i>									
Hyderabad ...	.....	13,079 15 3	13,079 15 3	1,827 13 3	12,203 1 2	14,035 14 5	955 15 2	.....	
Naushahro ...	.....	9,075 1 0	9,075 1 0	1,263 11 10	9,540 8 11	10,804 4 9	1,729 3 9	.....	
Sukkur ...	.....	22,054 6 8	22,054 6 8	4,444 12 10	19,325 12 6	23,770 2 4	1,715 11 8	.....	
Jerruck ...	.....	6,804 9 5	6,804 9 4	1,319 2 7	6,658 6 0	7,977 8 7	1,172 15 2	.....	
Thar and Parkar ...	.....	445 9 0	445 9 0	.....	695 9 0	695 9 0	250 0 0	.....	
Working Plans ...	.....	50 0 0	50 0 0	.....	50 0 0	50 0 0	.....	.....	
Total Disbursers ...	.....	51,509 9 4	51,509 9 4	8,855 8 6	48,477 14 7	57,333 7 1	5,823 13 9	.....	
GRAND TOTAL ...	.....	51,758 13 4	51,758 13 4	8,965 12 6	48,642 14 7	57,608 11 1	5,849 13 9	.....	

Forwarded to the Deputy Conservator of Forests, Sind Circle, under Section 267 of the Forest Department Code.

Accountant General's Office,  
Bombay, 3rd September 1897.

E. LAWRENCE,  
Accountant General.



## FORM No. 64.

## FOREST DEPARTMENT, SIND CIRCLE.

*Outstandings and Liabilities on account of Contractors and Disbursers for the Financial Year 1895-96.*

Division.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during year 1895-96.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (outstandings).	By Department (liabilities).	
<i>Contractors.</i>	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Direction ... ..	.....	50 0 0	50 0 0	.....	50 0 0	50 0 0	.....	.....	
Hyderabad ... ..	.....	1,026 8 8	1,026 8 8	1,026 8 8	.....	1,026 8 8	.....	.....	
Naushahro ... ..	.....	15 0 0	15 0 0	.....	15 0 0	15 0 0	.....	.....	
Jerruck ... ..	.....	311 0 0	311 0 0	376 4 0	.....	376 4 0	65 4 0	.....	
Working Plans ... ..	.....	.....	.....	.....	100 0 0	100 0 0	100 0 0	.....	
Total Contractors ...	.....	1,402 8 8	1,402 8 8	1,402 8 8	165 0 0	1,567 12 8	165 4 0	.....	
<i>Disbursers.</i>									
Hyderabad ... ..	.....	10,667 2 6	10,667 2 6	1,682 15 1	9,292 1 2	10,975 0 8	307 13 9	.....	
Naushahro ... ..	.....	10,444 9 3	10,444 9 3	1,554 7 8	9,659 1 7	11,213 9 3	769 0 0	.....	
Sukkur ... ..	.....	22,167 5 11	22,167 5 11	3,733 1 0	20,093 13 6	23,831 14 6	1,664 8 7	.....	
Jerruck ... ..	.....	4,738 12 1	4,738 12 1	1,038 5 8	4,408 0 10	5,446 6 6	707 10 5	.....	
Thar and Parkar ... ..	.....	445 9 0	445 9 0	.....	445 9 0	445 9 0	.....	.....	
Working Plans ... ..	.....	.....	.....	.....	50 0 0	50 0 0	50 0 0	.....	
Total Disbursers ...	.....	43,463 6 9	43,463 6 9	8,013 13 5	43,948 10 1	51,962 7 6	3,499 0 9	.....	
TOTAL ...	.....	49,865 15 5	49,865 15 5	9,416 10 1	44,113 10 1	53,530 4 2	3,664 4 9	.....	

Forwarded to the Deputy Conservator of Forests, Sind Circle, under Section 267 of the Forest Department Code.

Accountant General's Office, }  
Bombay, — August 1897. }

E. LAWRENCE,  
Accountant General.

FORM No. 65.

FOREST DEPARTMENT, SIND CIRCLE.

*Financial Results of the Forest year 1896-97.*

Division.	TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY?		OTHER REVENUE.		FORMATION, PRO- TECTION AND IM- PROVEMENT OF FORESTS.	TOTAL.		REMARKS.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Sukkur ...	1,341	12,245	1,08,982	11,561	15,165	1,10,323	38,971	
Naushahro ...	498	6,413	41,148	6,512	7,471	41,646	20,396	
Hyderabad ...	2,436	8,354	1,00,610	8,209	11,652	1,03,046	28,245	
Jerruck ...	791	8,613	50,203	8,561	11,872	50,994	29,046	
Thar and Parkar ...	2,551	2,313	3,737	479	483	6,288	3,275	
Working Plans ...	...	3,666	...	6,942	3,668	...	14,276	
Total ...	7,617	41,604	3,04,680	42,264	50,341	3,12,297	1,34,209	

F. R. DASAI,

Conservator of Forests,  
Sind Circle.

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**ANNUAL REPORT**

**OF**

**N<sup>o</sup>. 17 PARTY, BOMBAY FORESTS,**

**FOR**

**1896-97.**

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FORM No. 65.

FOREST DEPARTMENT, SIND CIRCLE.

*Financial Results of the Financial year 1896-97.*

Division.	TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY.		OTHER REVENUE.		FORMATION, PROTECTION AND IMPROVEMENT OF FORESTS.	TOTAL.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Sukkur ... ..	1,436	12,048	1,02,481	11,393	15,628	1,03,917	39,069	
Naushahro ... ..	893	6,792	47,892	6,860	8,401	48,785	22,053	
Hyderabad ... ..	2,598	8,272	1,13,014	8,589	12,211	1,15,612	29,072	
Jerruck ... ..	1,085	8,320	57,590	8,222	11,520	58,675	28,062	
Thar and Parkar ... ..	1,117	1,564	3,863	416	418	4,980	2,398	
Working Plans ... ..	.....	2,512	118	2,942	5,916	118	11,370	
Total ... ..	7,129	39,508	3,24,958	38,422	54,094	3,32,087	1,32,024	

F. R. DASAI,  
Conservator of Forests,  
Sind Circle.

*Annual Report of No. 17 Party (Bombay Forests) Survey of India  
for 1896-97.*

The charge of this party remained in the hands of Major W. J. Bythell,

*Personnel.*

Major W. J. Bythell, R. E., Deputy Superintendent, 1st Grade, in charge.	
Mr. C. E. Tapsell, Extra Assistant Superintendent, 3rd Grade.	
Mr. S. F. Norman, do. do. 6th Grade.	
Mr. C. A. Norman, do. do. do.	

R. E., throughout the year, with the exception of the periods 1st October to 2nd November 1896, when he was on privilege leave; and

*Surveyors and Sub-Surveyors.*

Gopal Vishnu (up to 30th June 1897), G. R. Bhopatkar, R. V. Joshi, Govind Gopal, N. V. Bhopatkar, and 39 others.

8th to 30th September 1897, when he was deputed on service with the Mohmand Field Force, as Survey Officer, when Mr. Tapsell held temporary charge.

The period now reported on is from 1st October 1896 to 30th September 1897.

As in previous years, the party continued the survey of forest areas on various scales in the three circles of the Bombay Presidency.

These operations comprised :—

*1.—In the Northern Circle.*

Advance triangulation in the Mándvi Táluka of the Surat Collectorate.  
Detail survey on the 8-inch scale of the teak reserves in the Máhim Táluka.

*2.—In the Central Circle.*

Completion of the 4-inch detail of ordinary forest reserves (mentioned in the programme contained in last year's report) in the Bhimthadi and Purandhar Tálukas, Poona District. Detail survey on the 8-inch scale of the teak reserves, and on the 4-inch scale of the ordinary forest reserves, in the Akola Táluka of the Ahmednagar District, completing the survey of that táluka. In this táluka an area of 161 square miles of supplementary triangulation was carried on by Mr. C. A. Norman *pari passu* with the detail survey, chiefly with a view to furnishing extra heights for plane-tables. Detail survey on the 16-inch scale of bábul reserves in the Nevása and Ráhuri Tálukas of the Ahmednagar District.

*3.—In the Southern Circle.*

Advance triangulation in the Roha Táluka of the Kolába District.

Advance triangulation and traversing in the Kumta, Sirsi, Siddápur and Honávar tálukas of the North Kánara District, by which the area remaining for triangulation in that district has been completed, *viz.*, 830 square miles.

Detail survey on the 4-inch scale of the forest areas in portions of the Ankola, Kumta and Sirsi tálukas, and completion of small areas left unsurveyed last year in the Yellápur Táluka.

In addition it was found necessary to carry out a small amount of revision work over a section adjoining one of the small areas mentioned above and to add certain boundaries and other details to work done during a previous season in the Alibág Táluka of the Kolába District, when the surveyors were unprovided with revision survey village maps.

The party left Poona for the field between the 15th and 20th November 1896, and survey operations were closed between the end of May and 10th of June 1897, when it returned to recess quarters.

Duration of Field Season.

The following table gives the total cost of the party for the year under report with the apportionment of charges to each of the three Circles :—

Cost rates.

Circle.				Financial year ending 31st March 1897.	Forest year ending 30th June 1897.	Survey year ending 30th September 1897.
				Rs. a. p.	Rs. a. p.	Rs. a. p.
Northern	...	...	...	10,507 6 3	10,615 4 7	10,766 6 1
Central	...	...	...	31,035 8 7	31,355 15 0	31,802 3 9
Southern	...	...	...	39,279 4 3	39,684 13 6	40,249 11 1
Total				80,822 3 1	81,656 1 1	82,818 4 11

The cost rates as usual are based on the total expenditure during the survey year, i.e., on the actual cost of a survey and of the mapping pertaining thereto.

The Statements A, B and C at the end of this report show the total areas completed in each Circle, of each description of survey with their respective cost rates.

The following table shows the total areas surveyed in square miles, as compared with the outturn for 1895-96 :—

Description of Survey.				1895-96.			1896-97.		
				4"	8"	16"	4"	8"	16"
Triangulation	...	...	...	280	225	...	1,041	335	...
Traversing	...	...	...	344	...	...	234	10	...
Topography	...	...	...	829	108	15	522	168	33

These figures show a considerable increase in the triangulation for both 4" and 8" work. An area of 880 square miles was triangulated in North Kánara, thus completing that class of work in that district. A small area still remains for traversing. The outturn of 4" topography is considerably below that of last year, chiefly owing to the fact that only one division of plane-tables was employed throughout the field season in North Kánara. Both the 8" and 16" topography show a considerable increase over the outturn for last year.

The cost rates for the different classes of survey, as compared with those of the two previous years (1894-95 and 1895-96), are shown in the following table :—

Cost rates.

Description of Survey.				1894-95.			1895-96.			1896-97.		
				Cost rate per square mile.			Cost rate per square mile.			Cost rate per square mile.		
				4"	8"	16"	4"	8"	16"	4"	8"	16"
Triangulation	...	...	...	8.8	15.0	...	7.1	3.5	...	9.5	5.3	...
Traversing	...	...	...	29.5	4.8	...	12.3	...	...	11.3	4.8	...
Topography	...	...	...	81.0	139.5	116.5	66.8	122.5	130.0	77.6	135.7	156.06

The above table shows throughout an increase in the cost rates for Topography, as compared with the figures for 1895-96, and is due primarily and solely to the fact that the expenditure in supervision for 1895-96 was less by Rs. 7,700 owing to Colonel Hobday's absence on furlough for over 4 months of the year and Mr. Tapsell's holding charge of the party in addition to his other duties during that period.

The cost rates of the 4" and 8" scale surveys not only bear comparison with the figures of previous years, excluding 1895-96, but are actually cheaper; with regard to the 16" work, where the largest increase occurs, *viz.*, Rs. 26-1-7 per square mile, as compared with the figures for 1895-96, the only apparent reason is that the hands employed on it throughout the season were very junior sub-surveyors. Considering the rugged and hilly nature of the country under survey on the 4" and 8" scales, it was found impossible to depute men of experience in hill delineation to the 16" work, as they could be more profitably employed elsewhere, and so junior sub-surveyors and apprentices were put on this work, which has been found to be an excellent training ground for such men. It may be remarked that Major Bythell, in his report for 1895-96, anticipated the enhancement of cost rates and had a clause to the effect that these figures "may be said to have here reached the minimum, which it will hardly be possible to maintain during the future."

The increase in the cost of triangulation, both for the 4" and 8" scales, is accounted for by the fact that European Agency was employed in the Central Circle, whereas last season Native Agency was entirely used; on the other hand, the traversing was executed at a cheaper rate.

The Surveyor-General, during his late inspection of this office, on reviewing the Annual Report for 1896-97, has appended a remark that "Native Agency should always be employed on triangulation if possible" which will be attended to in future.

The accompanying table shows the total area of forests—both Reserved, Protected and Proposed—in each Circle, as it stood on the 30th June 1896, and the aggregate actual forest area surveyed by this party up to the same date:—

Circle.			Total forest area on 30th June 1896 in square miles.	Total of actual forest area surveyed up to 30th June 1896 in square miles.	Remaining to be surveyed.
Northern	...	...	1,619	751	868
Central	...	...	6,351	1,461	4,890
Southern	...	...	5,246	2,267	2,979

The above table does not include an area of 678½ square miles of leased forest in the Dangs, in the Northern Circle, the survey of which has been completed.

The detail survey was checked by 146·70 linear miles of check lines as well as by *in situ* fixings whilst the work was in progress. Examination of work and tours of Superintendent.

Early in December the Superintendent left Poona and marched *viâ* Râhûri and Sangamner to Akola in the Ahmednagar District, where the camps of Messrs. S. and C. Norman were engaged on the 8" detail survey. Most of the plane-tables were seen at their work. After a hurried visit to Poona from 2nd to 8th January to settle pay-bills, reports, &c., the Superintendent returned to the Akola Taluka *viâ* Ghoti and Wâki and continued the inspection of the 8" and 4" work. With two exceptions, all the men were seen whilst at work and their plane-tables tested by *in situ* fixings. At the end of February orders were received by the Superintendent to hold himself in readiness to join the Mohmand Boundary Demarcation Commission under Mr. Udny at Peshâwar. As these orders were confirmed, he thought it advisable to return to Poona and await further instructions there. He accordingly remained in Poona until the end of March, when orders were received to cancel arrangements, as the Commission was postponed. The Superintendent then proceeded to the Râhûri Taluka, where he inspected the 16" work in progress there, under the charge of Surveyor Gopal Vishnu, and remained there until the middle of April, when he proceeded *viâ* Poona to Haveri on the Southern Marâtha Railway, whence he marched into

the North Kánara District *viá* Alúr to Sirsi. Several of the men of Mr. Tapsell's camp were seen at work in the Ankola and Kumta talukas, and the Superintendent remained in the district until the end of May, when he marched *viá* Yellápur to Hubli, reaching Poona on the 4th of June.

Mr. Tapsell left Poona on the 18th of November and embarked at Bombay on the 20th, reaching Kárwár on the 22nd idem. Work was fairly started before the end of the month and Mr. Tapsell remained in the district, inspecting and checking the work of his men until the end of May, when he returned to recess quarters at Poona.

Work of Assistants.—  
Mr. C. Tapsell.

The country immediately along the coast in the Ankola Taluka of the North Kánara District consists of undulating ground and low hills covered with scrub jungle, paddy being largely cultivated on the low-lying lands; but only a few miles inland there are high ridges of hills emanating from the main mass of gháts, with long projecting spurs, covered with dense forest, extremely difficult to survey. The River Gangávalli runs through the breadth of the country surveyed during the season, from north-east to south-west, and has a belt of high bamboo jungle on either bank.

The work was carried on principally in the Ankola Taluka, the survey of which, with the remaining portion of the Kárwár Taluka, was completed. Small bits of the Kumta and Sirsi talukas, which come into sheets 248 and 280, were also surveyed, as also the remaining portions of sheet 280 in the Yellápur Taluka. Owing to the early and sudden cessation of the rain during the monsoons, there was a great drought of water as early as the beginning of March, which was at its worst in April and the first two weeks in May. Most of the wells and springs were dry, and the surveyors had to undergo great hardship for the want of water and to go long distances to work.

The Superintendent reports with regret the death of two of the best sub-surveyors of this detachment (Kánara), Virappa Piráji and Raghunáth Náráyen, the former from pneumonia, the latter from cholera, which took place at Poona shortly after the return of the party to recess quarters. Virappa Piráji had served in the Bombay Sappers and Miners prior to being employed in the Survey Department. He was an accurate plane-tableer and an able draftsman. Raghunáth Náráyen was a comparatively young hand, but had become a most efficient plane-tableer and a good draftsman.

There was a great deal of dysentery and fever among the men during the latter half of the season.

Mr. S. Norman, who was in charge of No. 2 camp, left Poona on the 18th November 1896 by rail for Ghoti Station near Igatpuri and from thence marched into the Akola Taluka of the Ahmednagar District, where he started the survey of the teak-bearing forests on the 8" scale. He superintended this work till its completion early in February, covering 96.14 square miles. He next, in conjunction with his brother, supervised the work of the remaining area on the 4" scale up to the 15th March of 117.77 square miles. The survey of the whole of the forest area of Akola Taluka has now been completed: The country under survey comes under the appellation of Dang and is inhabited by a race of Kolis: it is all more or less hilly, but in the vicinity of the gháts there are several ranges, which rise to heights between 4 and 5,000 feet and include the highest point in the Bombay Presidency, known as Kalsubai, of which the height is 5,415 feet above sea level.

On or about the 20th March, No. 2 camp, under Mr. S. Norman, moved down by rail to the Máhim Taluka of the Thána District, where work was undertaken on the scale of 8" = 1 mile, the members of No. 3 camp (Mr. C. Norman's) moving down into this taluka as the work approached completion in the Akola Taluka and after the 1st May both camps were fully at work. An area of 51.7 square miles was completed by the end of the season, when the camps returned to Poona for recess. At the request of the Conservator of Forests, Northern Circle, the demarcation of the sub-blocks was again undertaken, as in the Vádá Taluka, of which mention was made in last year's report; 246 coupes were laid out on the ground and 903 cairns were erected at a total cost of Rs. 227-11-6, giving an average cost of Re. 0-4-1 per cairn.



The country under survey in the Thána District included two ranges of hills divided by the Vaitarna River, which forms a tidal creek beyond the limits of the work undertaken. The old hill fort of Tandulvádi occupies a central position on the range west of the creek, the highest point of the range being 1,547 feet above sea level. The whole area under survey is covered with a dense forest of teak, and, compared with the work in the Akola Taluka, presented a great many more difficulties to the surveyor.

The general health of both camps was good throughout the season.

Mr. C. Norman left Poona about the middle of November and proceeded *via* Igatpuri to the town of Rájur, where he spent a few days computing the co-ordinates of points belonging to the old triangulation on which the supplementary triangulation, which it was found necessary to carry out in certain parts of the area under survey, would be based. After visiting 2 or 3 plane-tablers *en route*, he began his triangulation at Ghoti H. S. on the 2nd December, and by the 16th idem had covered an area of 43 square miles, and computed and plotted points furnishing data for 8 plane-table sections on the scale of 8"=1 mile. He next examined the plane-table sections of 3 sub-surveyors. He returned to Rájur about the 6th January and resumed triangulation in sheet 194, and by the end of the month observed and computed points for 11 sections on the 8" scale, having had to cover an area of 88 square miles to do so. Leaving the Samrad Valley in sheet 194, he proceeded to the Ambit Valley in sheet 195, south of the above. Here, owing to the almost inaccessible nature of many of the peaks, the narrowness of the valley and the great height of the hill ranges confining it, rising as they do from 2 to 3 thousand feet above the valley, he had considerable difficulty in supplying some of the sections with points. The triangulation was brought to a close on the 16th February, adding about 30 square miles to the area previously accounted for.

From that time he was employed on visiting the camps and examining the work of the 10 surveyors attached to his camp.

Some of the men experienced great hardship through the deficiency of water in parts of the country, making it necessary for them to encamp long distances away from their ground and to work under the trying heat of the months of March and April, without a drop of water to relieve their thirst for several hours of the day. Added to this was the fear of dacoits, who raided and robbed Sub-Surveyor S. S. Joshi's camp.

Surveyor Gopál Vishnu was placed in charge of the 16 surveys in the Shri-Work of Surveyors and Sub-Surveyors—Gopál Vishnu. gonda, Ráhuri and Nevása Talukas of the Ahmednagar District. Three junior sub-surveyors were told off to assist him. As in previous years, Gopál Vishnu in every case ran the plane-table circuit around each detached piece of work and the interior detail was completed by his assistants. An area of 32.90 square miles was completed, and this area was checked by 42 linear miles of check line run by Major Bythell and Gopál Vishnu. In addition to the above, 16.7 and 5.6 square miles were surveyed by this detachment on the 4 and 8-inch scales respectively in the Purandhar and Bhimthadi Talukas of the Poona District. The Superintendent would here take the opportunity of mentioning that Gopál Vishnu has been permitted to retire from the service from 1st July 1897. He has served the Department well and faithfully for 30 years, receiving the commendation of all the officers under whom he has served for good and steady work, conscientiously performed, and it is with regret that we part from him now.

Surveyor R. V. Joshi was deputed to finish the triangulation that remained to be done in the Kánara District. He left R. V. Joshi and P. R. Vaidya. Poona on the 14th November by the Southern Marátha Railway for Haveri, then proceeded by marches to Sirsi, where he began operations on the eastern margin of sheet 281, working westwards to the coast, and then south to the extreme limits of the Kánara District contiguous to the Mysore Territory and Madras Presidency. He was assisted by Sub-Surveyor P. R. Vaidya, who did the traversing in sheets 248 and 280, covering an area of 234 square miles.

Sub-Surveyor N. R. Patwardhan was employed on supplementary triangulation and traversing in the Mándvi Táluka of the Surat District from the 15th November 1896 to the end of February 1897, where he completed an area of 141 square miles of triangulation and 44 linear miles of traversing. He then moved down into the Roha Táluka of the Kolába District and by the end of May completed an area of advance triangulation of 194 square miles.

With one or two exceptions, the sub-surveyors in the three camps worked well throughout the field season and gave satisfaction to their Camp Officers.

The computations pertaining to last field season's triangulation and traversing have been completed during recess, excepting those of sheets 281 and 282 in the Kánara District, which will not be needed during the coming season, there being sufficient work in advance to keep the surveyors fully occupied, and also that of sheet 155 in the Mándvi Táluka, which is likewise not required immediately. In the Northern Circle 18 sections on the 8" scale in Táluka Máhim, District Thána, have been drawn.

In the Central Circle 39 sections on the 8" scale in Akola Táluka, Ahmednagar District, and 28 sections on the 16" scale in the Ahmednagar District.

In the Southern Circle 13 sections in sheet 247, 4 sections in sheet 248 and 8 sections in sheet 279, North Kánara District, scale 4" = 1 mile have been drawn and the arrears brought up, and are awaiting final examination before being sent to press; 12 sections on the scale of 8" = 1 mile, Kolába District, have also been prepared for publication.

The small staff of draftsmen left in Poona during the field season to bring up the arrears of mapping of the 4" scale sections in the Poona District have completed 14 sections, which are ready for examination, 13 still remaining to be done. It may here be said that the number of draftsmen in the party are unable to cope with the large quantity of field work that is brought in each year; it is proposed, therefore, to prevent an accumulation of arrears, to divide the year equally between the field and recess seasons, giving 6 months to each instead of 6½ months to field and only 5½ to recess duties as heretofore. The office was inspected in person by Major-General C. Strahan, R.E., the Surveyor-General, during the second week in September, who most carefully examined every branch of the work.

The programme for the ensuing field season is as follows:—

*Northern Circle.*

Advance triangulation in Dahánu Táluka, sheet 135.

Completion of 8" detail in Máhim Táluka in sheets 135 and 136.

*Central Circle.*

Advance triangulation in Igatpuri and detail survey on 8" scale in the same Táluka.

Continuation of detail survey on 16" scale of bábul reserves along the banks of the Godáviri River.

*Southern Circle.*

Advance triangulation in the Mángaon and Mahád Tálukas of Kolába District, in sheets 168 and 290.

Traversing in Sirsi Táluka, North Kánara District, in sheet 280.

Commencement of 8" detail in Roha Táluka, Kolába District, in sheet 167.

Continuation of 4" detail in Sirsi Táluka of North Kánara District, in sheet 280.

C. E. TAPSELL,

Poona, 1st October 1897.

Acting Superintendent, Bombay Forest Survey.

A.

*Statement showing the Forest Survey Work and its Cost during Survey year 1896-97  
in the Northern Circle.*

Description of Survey.	Scale.	District.	Area in square mile.	Total cost for Survey year.	Cost rate per square mile.	Remarks.
				Rs. a. p.	Rs. a. p.	
Triangulation ...	8" = 1 mile ...	Surat ...	141	916 5 1	6 11 4	In Mándvi Táluka.
Traversing ...	Do. ...	Do. ...	10	47 8 0	4 12 0	44 linear miles in Mándvi Táluka.
Detail Survey...	Do. ...	North Thána ...	51.7	9,772 9 0	188 15 10	In Máhim Táluka.
			Total ...	10,766 6 1		

B.

*Statement showing the Forest Survey Work and its Cost during Survey year 1896-97  
in the Central Circle.*

Description of Survey.	Scale.	District.	Area in square mile.	Total cost for Survey year.	Cost rate per square mile.	Remarks.
				Rs. a. p.	Rs. a. p.	
Triangulation ...	4" = 1 mile ...	Ahmednagar ...	161	2,898 10 3	18 0 0	In Akola Táluka.
Detail Survey...	Do. ...	Poona ...	16.7	12,339 14 11	91 9 11	In Purandhar and Bhimthadi Tálukas.
Do. ...	Do. ...	Ahmednagar ...	117.77			In Akola Táluka.
Do. ...	8" = 1 mile ...	Poona ...	5.62	11,428 14 9	112 4 10	In Bhimthadi Táluka.
Do. ...	Do. ...	Ahmednagar ...	96.14			In Akola Táluka.
Do. ...	16" = 1 mile ...	.....	32.90	5,134 11 10	156 1 7	In Shrigonda, Ráhuri and Nevása Tálukas.
			Total ...	31,802 3 9		

C.

*Statement showing the Forest Survey Work and its Cost during Survey year 1896-97  
in the Southern Circle.*

Description of Survey.	Scale.	District.	Area in square miles.	Total cost for Survey year.	Cost rate per square mile.	Remarks.
				Rs. a. p.	Rs. a. p.	
Triangulation...	8" = 1 mile ...	Kolába ...	194	828 3 0	4 4 4	In Roha Táluka.
Do. ...	4" = 1 mile ...	North Kánara ...	880	6,956 11 10	7 14 7	In Kumta, Siddápur, Bhatkal and Honávar Tálukas.
Traversing ...	Do. ...	Do. ...	234	2,650 3 0	11 5 2	In Sirsi and Ankola Tálukas.
Detail Survey...	8" = 1 mile ...	Kolába ...	15	1,656 5 10	110 6 11	In Alibág Táluka.
Do. ...	4" = 1 mile ...	North Kánara ...	387.50	28,158 3 5	72 10 8	In Kárwár, Kumta, Ankola and Sirsi Tálukas.
			Total ...	40,249 11 1		

C. E. TAPSELL,

Poona, 1st October 1897.

Acting Superintendent, Bombay Forest Survey.

# ANNUAL REPORT OF THE BOMBAY FOREST SURVEY PARTY FOR THE YEAR ENDING 30TH SEPTEMBER 1897.

No. <sup>S.</sup><sub>1922-A.</sub> OF 1897.

Poona, 11th November 1897.

Submitted to Government. As required by the Standing Orders, copies of the report will be furnished to the Conservators of the three Forest Circles and to the Divisional Commissioners, together with copies of this office review.

2. The party remained under the control of Major W. J. Bythell, R.E., throughout the year, with the exception of the periods (1) 1st October to 2nd November 1896, when he was on privilege leave, and (2) 8th to 30th September 1897, when he was deputed on service with the Mohmand Field Force as Survey Officer, during which period Mr. Tapsell was placed in temporary charge in addition to his own duties.

3. As mentioned in paragraph 3 of this Office No. <sup>S.</sup><sub>2238.</sub>, dated 16th October 1896, reviewing last year's report, an additional grant of Rs. 4,000 was sanctioned \* by Government to meet the requirements of the additional hands employed in the party for the year under report.

\* G. R. No. 2419, dated 27th March 1897, R. D.

4. The following table compares the total cost of the party and the distribution of it among the three Circles during the year with that of the previous year :—

Year.	Northern Circle.	Central Circle.	Southern Circle.	Total.
1895-96	6,963	22,436	47,969	77,388
1896-97	10,766	31,802	40,250	82,818

The cost in the Southern Circle should be reduced by Rs. 10,000, being the estimated cost of the Topographical Survey in Kánara carried out by the party for the Survey of India, as has been explained in previous reports.

5. The Superintendent has compared in detail the results of the year's operations with those of the previous year, and has explained the causes which led to the increase of the cost rate under each item. It may, however, be observed that the Superintendent has not explained why it was necessary to employ European Agency during the year under report on triangulation in the Central Circle, which has resulted in an increase in the cost rate, when the same kind of work was done last year by Native Agency exclusively. The point has already attracted notice of the Surveyor-General at his recent inspection of the office, and the Superintendent proposes to carry out the instructions of the Surveyor-General in future. The increase in the cost rate of the 16" work also invites comment. The work was done by junior men and should have been more closely supervised. The point will, no doubt, receive the Superintendent's attention, and it is hoped that the current year's outturn will show better results.

6. The work done during the year under report is shown below :—

## Northern Circle.

The operations in this Circle consisted in triangulation, traversing and detail survey on the 8" scale, the first two in the Mándvi Táluka of the Surat Collectorate, completing 141 and 10 square miles at an average cost of Rs. 6 $\frac{3}{4}$  and 4 $\frac{3}{4}$  per square mile, respectively, and the last covering an area of 51.7 square miles in the Máhim Táluka of the Thána District, at an average cost of Rs. 189 per square mile, a rate higher than that (Rs. 168) of similar work in the Váda Táluka last year.

*Central Circle.*

The survey under this head was confined to Shrigonda, Rāhūrī and Nevāsa Bābul Reserves, 16" Scale: Tālukas of the Ahmednagar District, and covered an area of 32.90 square miles. Its cost was Rs. 156 per square mile. Besides the above, 134.47 square miles of survey of ordinary forest on the 4" scale were completed in Purandhar and Bhimthadi Tālukas of the Poona District, and in Akola in Ahmednagar, at a cost of about Rs. 92 per square mile, a rate comparatively higher than that (Rs. 62) in the previous year. In addition to this, 101.76 square miles of survey on an 8" scale of teak reserves were carried out in Bhimthadi in Poona, and in Akola in Ahmednagar, at a cost of Rs. 112 per square mile. Of this, only 5.62 square miles were surveyed in Bhimthadi, the remainder being in Akola Tāluka alone, thus completing the Forest Survey operations in that tāluka. The cost rate is comparatively higher than that during the previous year. An area of 161 square miles of supplementary triangulation was completed in Akola Tāluka of the Ahmednagar District, at an average cost of Rs. 18 per square mile.

*Southern Circle.*

Advance triangulation to the extent of 194 square miles, at a cost Rs. 4, and of 880 square miles, at a cost of about Rs. 8 for 8" and 4" detail surveys, respectively, was carried out, the former in Roha in Kolāba and the latter in Kumta, Siddāpur and Honāvar in Kānara. Besides the above, the supplementary traversing on the 4" scale to the extent of 234 square miles, at a cost of Rs. 11, was effected in Sirsi and Ankola Tālukas in Kānara. In addition to this, detail survey to the extent of 387.50 square miles, at a cost of Rs. 73, was completed in the above two tālukas as also in Kārwar and Kumta Tālukas of the same district. Detail survey on 8" scale of 15 square miles, at an average cost of Rs. 110 per square mile, was also carried out in Alibāg Tāluka of the Kolāba District. The cost rates of traversing and triangulation compare favourably with those of similar work in the previous year, while the rate of detail survey is in excess of that of similar work done last year.

7. The excess work of the party in respect of mapping is still not kept up to date. To prevent accumulation of arrears, the Superintendent proposes in future to divide the year equally between the field and recess seasons in this branch, and it is hoped that the arrangement will secure the end in view.

8. The health of the men who were employed in the Northern and Central Circles was good, notwithstanding the fact that in the latter Circle they had to work in the trying heat of the sun during March and April, and had to encamp long distances from the scene of their work owing to deficiency of water. The men employed under Mr. Tapsell in Kānara in the Southern Circle, however, suffered from sickness, resulting in the death of one of the efficient hands. There was another casualty among the men, which occurred at Poona from cholera. Notwithstanding these difficulties, the party appears to have worked creditably.

9. The Superintendent's inspection tour does not appear to have extended to all the parts of his charge, inasmuch as the work done in the Northern Circle seems to have been not tested by him. This is probably owing to his having lost one month by his stay at Poona awaiting instructions to join the Mohmand Boundary Demarcation Commission, the orders being subsequently cancelled.

10. The Superintendent intimates that copies of coloured index maps showing the progress made up to date will be supplied when received from Calcutta, where the originals have been sent for printing. These, when received, will be distributed as usual to the officers concerned.

E. H. HEARN,

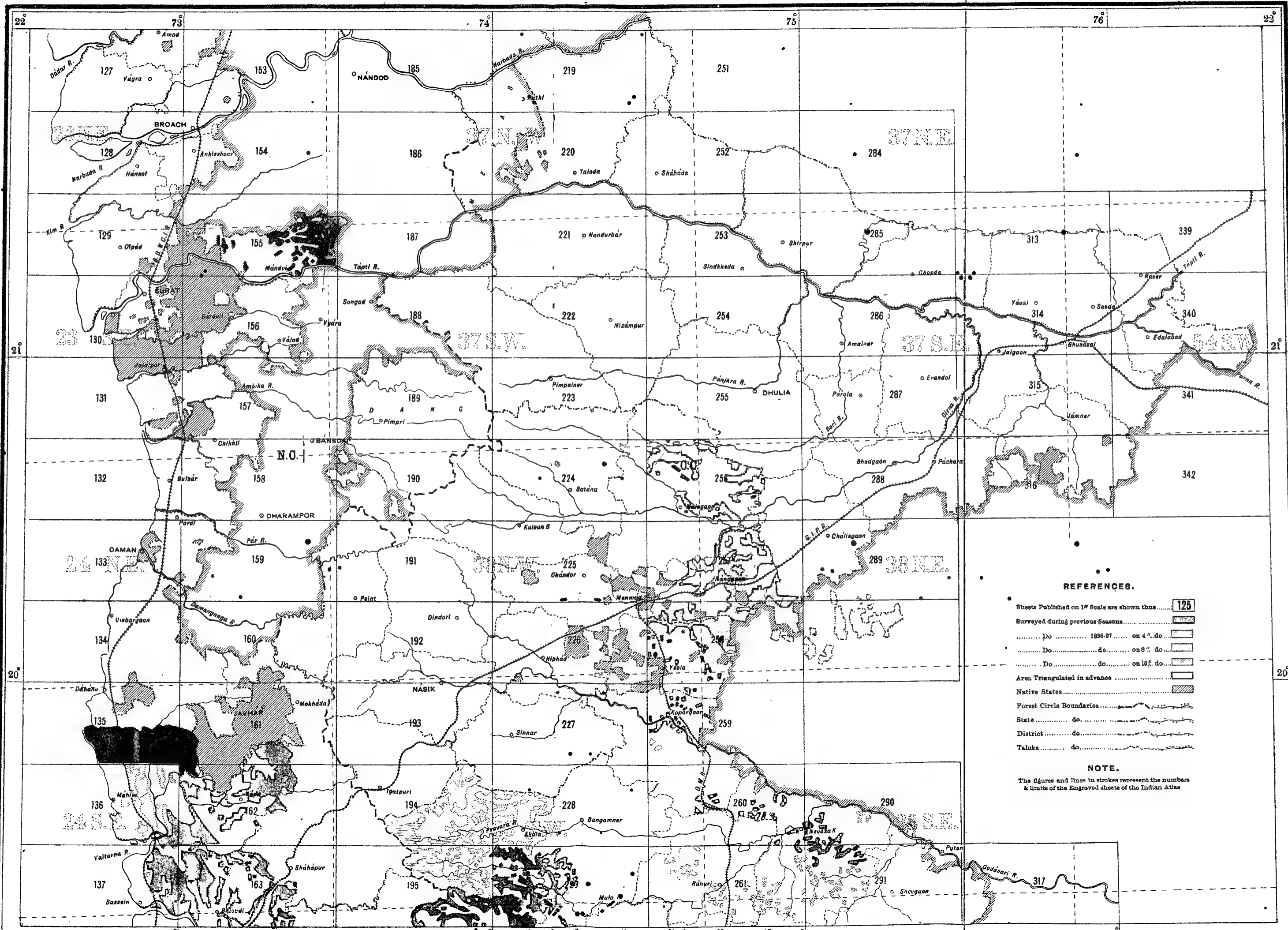
Acting Survey Commissioner and Director,  
Land Records and Agriculture.

# BOMBAY SURVEY.

INDEX TO THE FOREST SURVEYS IN PORTIONS OF THE NORTHERN & CENTRAL CIRCLES.

1896-97.

No. 17 PARTY.



## REFERENCES.

- Sheets Published on 1" Scale are shown thus 125
- Surveyed during previous Seasons 125
- Do ..... 1896-97 ..... on 4" do 125
- Do ..... do ..... on 8" do 125
- Do ..... do ..... on 16" do 125
- Area Triangulated in advance 125
- Native States 125
- Forest Circle Boundaries 125
- State ..... do ..... 125
- District ..... do ..... 125
- Taluka ..... do ..... 125

## NOTE.

The figures and lines in strokes represent the numbers & limits of the Engraved sheets of the Indian Atlas

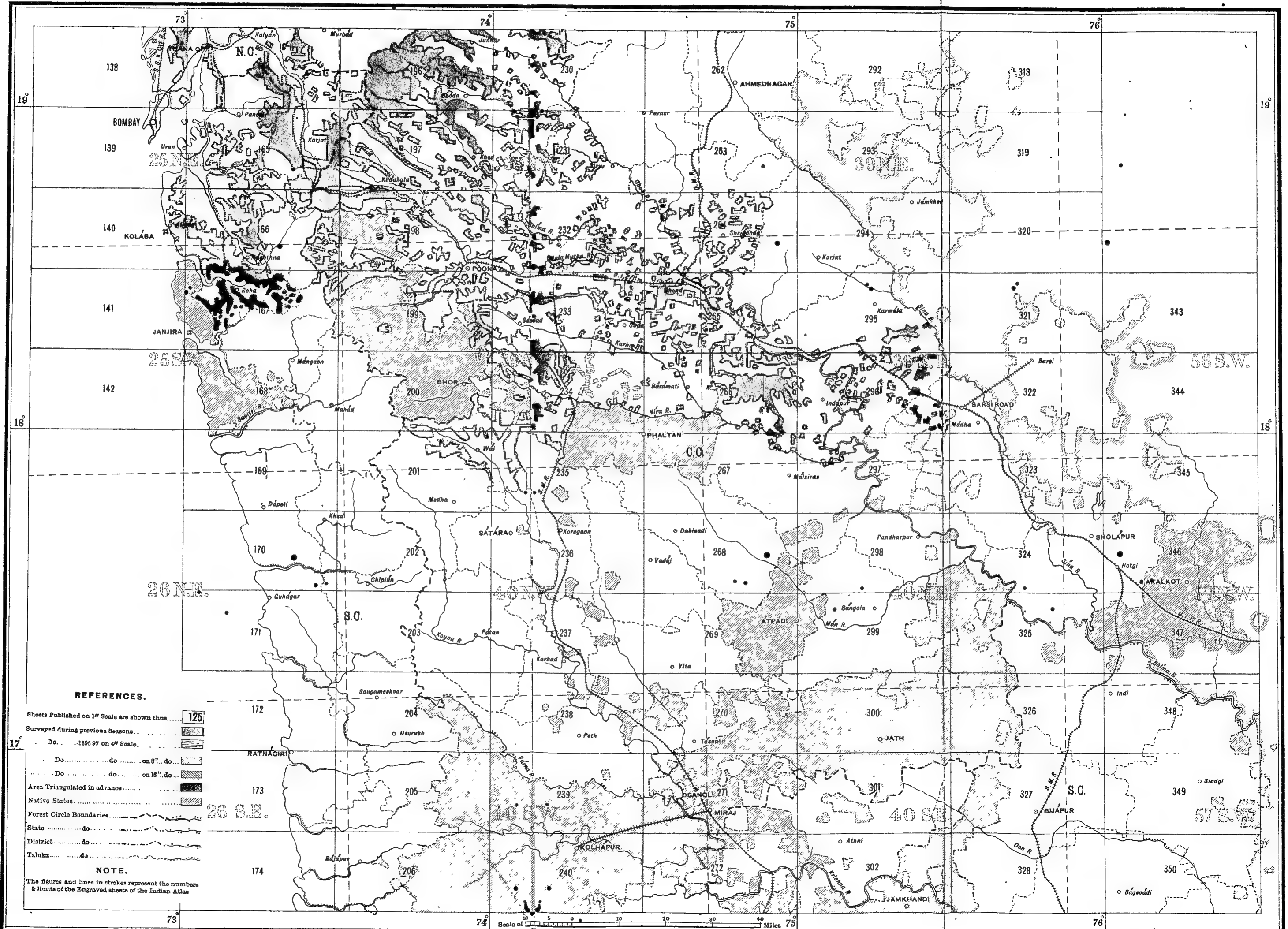


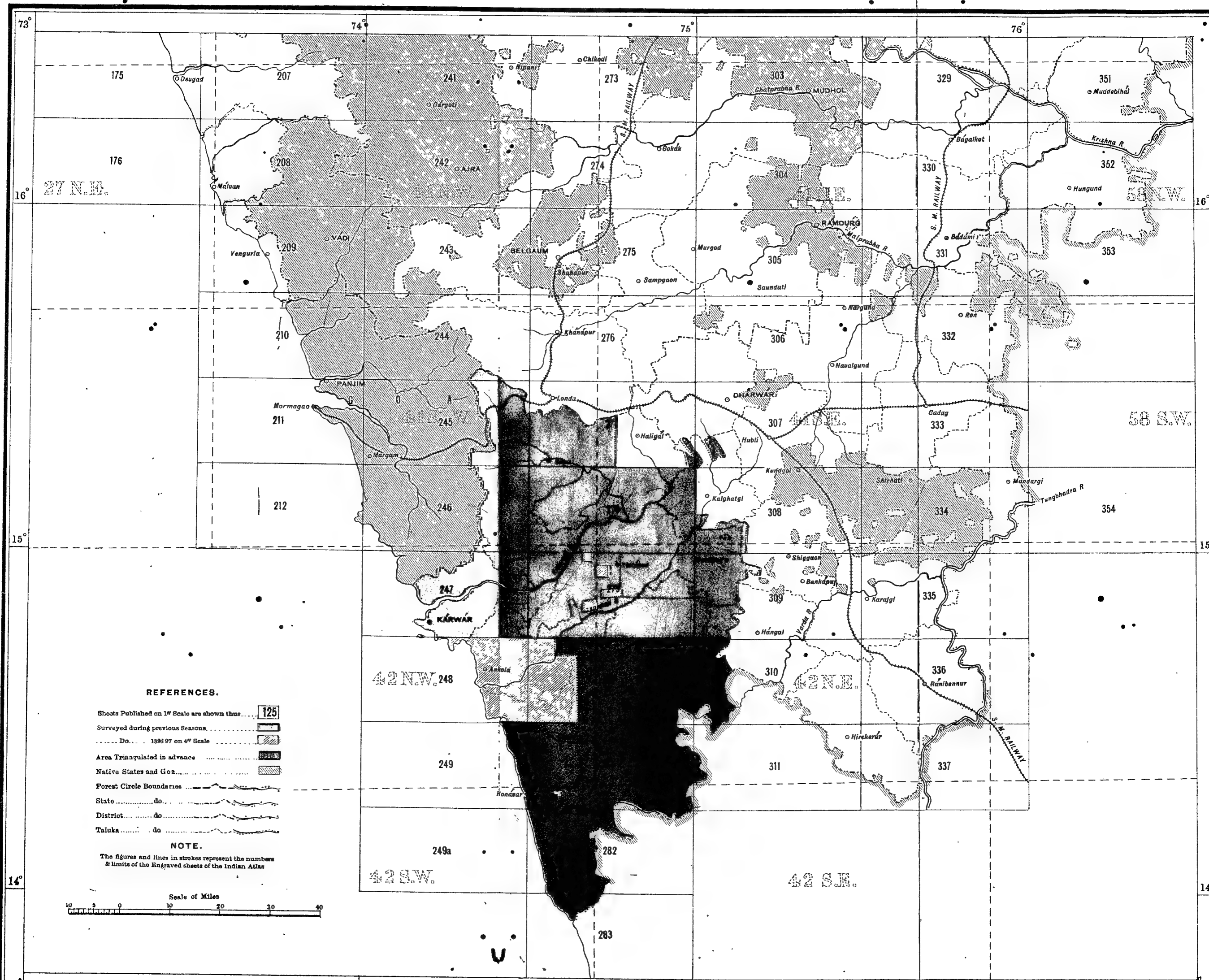
# BOMBAY SURVEY.

1896-97.

INDEX TO THE FOREST SURVEYS IN PORTIONS OF THE NORTHERN, CENTRAL, & SOUTHERN CIRCLES.

No 17<sup>th</sup> PARTY.







*Forest Administration Reports of the Bombay Presidency, including Sind, for 1896-97, and the Annual Report of the Bombay Forest Survey for the year ending September 1897.*

No. 4366 of 1898.

REVENUE DEPARTMENT.

Bombay Castle 4th July 1898.

Memorandum from the Survey Commissioner and Director of Land Records and Agriculture, No. S.—1922-A., dated 11th November 1897—Submitting, with his remarks, the Annual Report of the Bombay Forest Survey for the year ending 30th September 1897.

Memorandum from the Commissioner, N. D., No. 721, dated 25th February 1898—Forwarding, with his remarks, a letter No. 2111, dated 15th October 1897, from the Conservator of Forests, N. C., who submits the Forest Administration Report of the Northern Circle for the year 1896-97.

Memorandum from the Commissioner in Sind, No. 937, dated 5th March 1898—Forwarding, with his remarks, a letter No. 3141, dated 9th November 1897, from the Conservator of Forests, Sind Circle, who submits the Forest Administration Report of the Sind Circle for the year 1896-97.

Memorandum from the Commissioner, C. D., No. R.—866, dated 10th March 1898—Forwarding, with his remarks, a letter No. 6316, dated 4th idem, from the Conservator of Forests, C. C., who submits the Forest Administration Report of the Central Circle for the year 1896-97.

Memorandum from the Commissioner, S. D., No. 1089, dated 24th March 1898—Forwarding, with his remarks, a letter No. 7359, dated 31st January 1898, from the Deputy Conservator of Forests in charge S. C., who submits the Forest Administration Report of the Southern Circle for the year 1896-97.

**RESOLUTION.**—These reports should have reached Government by the 1st October; they were received by the Commissioners between the end of January and the middle of March, and were forwarded at dates between the 25th of February and the 24th of March. The Sind Report is stated to have been delayed by the necessity for the rectification of discrepancies, but in the other cases no explanation has been furnished; the orders of Government insisting on punctuality have been repeated year after year without effect, and the Conservators of the Northern, Central and Southern Circles should explain the reasons for the disregard of those orders.

2. The following statement shows the changes that have taken place in the forest area during the year under review :—

Circle.	Area on 1st July 1896.			Added.		Excluded.		Area on 30th June 1897.		
	Reserved.	Protected.	Total Forest Area.	Reserved.	Protected.	Reserved.	Protected.	Reserved.	Protected.	Total Forest Area.
	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.
Northern Circle.	*1,184 <sup>385</sup> / <sub>640</sub>	434 <sup>48</sup> / <sub>640</sub>	1,618 <sup>433</sup> / <sub>640</sub>	8 <sup>153</sup> / <sub>640</sub>	...	1 <sup>383</sup> / <sub>640</sub>	19 <sup>19</sup> / <sub>640</sub>	1,191 <sup>155</sup> / <sub>640</sub>	434 <sup>29</sup> / <sub>640</sub>	1,625 <sup>184</sup> / <sub>640</sub>
Central Circle.	6,337 <sup>509</sup> / <sub>640</sub>	12 <sup>78</sup> / <sub>640</sub>	6,350 <sup>85</sup> / <sub>640</sub>	14 <sup>363</sup> / <sub>640</sub>	...	108 <sup>108</sup> / <sub>640</sub>	14 <sup>14</sup> / <sub>640</sub>	6,355 <sup>216</sup> / <sub>640</sub>	12 <sup>62</sup> / <sub>640</sub>	6,364 <sup>278</sup> / <sub>640</sub>
Southern Circle.	2,910 <sup>593</sup> / <sub>640</sub>	2,334 <sup>329</sup> / <sub>640</sub>	5,245 <sup>282</sup> / <sub>640</sub>	794 <sup>514</sup> / <sub>640</sub>	...	5156 <sup>5156</sup> / <sub>640</sub>	756 <sup>235</sup> / <sub>640</sub>	3,700 <sup>311</sup> / <sub>640</sub>	1,578 <sup>84</sup> / <sub>640</sub>	5,278 <sup>405</sup> / <sub>640</sub>
Sind Circle.	1,060 <sup>106</sup> / <sub>640</sub>	437 <sup>37</sup> / <sub>640</sub>	1,064 <sup>478</sup> / <sub>640</sub>	†3 <sup>535</sup> / <sub>640</sub>	...	...	3 <sup>427</sup> / <sub>640</sub>	1,064 <sup>1</sup> / <sub>640</sub>	585 <sup>585</sup> / <sub>640</sub>	†1,064 <sup>585</sup> / <sub>640</sub>
Total ...	11,493 <sup>403</sup> / <sub>640</sub>	2,785 <sup>185</sup> / <sub>640</sub>	14,278 <sup>588</sup> / <sub>640</sub>	821 <sup>285</sup> / <sub>640</sub>	...	7 <sup>5</sup> / <sub>640</sub>	760 <sup>55</sup> / <sub>640</sub>	12,308 <sup>43</sup> / <sub>640</sub>	2,025 <sup>180</sup> / <sub>640</sub>	14,333 <sup>173</sup> / <sub>640</sub>

\* Excluding the area of leased forests in the Dāngs which is given as 678½ square miles.

† Exclusive of an area of <sup>3427</sup>/<sub>640</sub> square miles of unclassified forest.

In the Northern Circle the settlement operations added 4,924 acres to the North and Central Thána forests. In the Central Circle the area was increased by the rectification of book entries affecting some  $4\frac{1}{2}$  square miles, and by the reservation of some ten square miles, chiefly in the Sátára District. The principal changes occurred in the Southern Circle where in Kánara 664 square miles and in Bijápur 89 square miles of Protected Forest were converted into Reserved, while fresh reserves, measuring  $23\frac{1}{2}$  and 8 square miles respectively, were created in Bijápur and Kolába. In the Sind Circle the alterations were unimportant, but it is noted that 3,514 acres were lost by erosion on the banks of the Indus. The extraction of wood to the value of Rs. 5,380 from this area in anticipation of erosion is a sign of the initiation of necessary precautions, but cannot be taken as an adequate protection of the interests of the State, and it is hoped that the measures now begun will be prosecuted with greater success in future.

3. Forest Settlement Reports were completed during the year for the Dáhánu, Umbargaon, and Murbád Ranges in Thána, and considerable progress in settlement took place also in Kánara. In all Circles the work is now well advanced; in the Northern little remains but the revision of the Mándvi Taluka; in the Central the acquisition of 15,816 acres of occupied lands within sanctioned forest limits is still under negotiation; in the Southern the statistical statement furnished shows an area of 1,118 square miles unfinished, which, however, has been reduced by one-half by the sanction of proposals dealt with since the date of the report, and by the correction of inaccuracies in the original notification of area; in Sind the settlement of 16,862 acres is under the consideration of the Revenue officers. It is unfortunate that, owing to the deputation on famine duty of the Forest Settlement Officer, it was impossible to proceed with the field work of the Southern Circle.

4. The following statement compares the length of boundary demarcated and the cost with the figures of the preceding year :—

Circle.	1895-96.		1896-97.	
	Length in miles of boundary lines cleared.	Cost.	Length in miles of boundary lines cleared.	Cost.
	Miles.	Rs.	Miles.	Rs.
Northern Circle ... ..	130 $\frac{1}{2}$	1,878	260	4,814
Central Circle ... ..	669	6,420	2,746	16,917
Southern Circle ... ..	124	862	20	3,888
Sind Circle ... ..	176	929	81 $\frac{85}{623}$	240

In the Central Circle the work was pushed on as a measure of famine relief, with very satisfactory results, both in the extent of boundary cleared, and in the reduction of cost. Progress was made in the Northern Circle, while in Sind special causes interfered to retard operations. In the Southern Circle the restriction of forest expenditure on account of famine checked the progress of the work in the Belgaum and Dhárwár districts and only 20 miles are shown in Form No. 48 as having been newly demarcated in the whole Circle; but in Bijápur the preparation of stone pillars for boundaries before laid out was undertaken as a form of famine relief, and Rs. 3,210 out of the total sum of Rs. 3,888 expended on demarcation were devoted to that object. None of the reports show how many miles of forest boundary still remain to be demarcated.

5. The work of the Forest Survey Party is shown below :—

Circle.				Triangulation.	Traversing.	Detail Survey.
				Sq. miles.	Sq. miles.	Sq. miles.
Northern Circle	...	...	...	141	10	51.7
Central do.	...	...	...	161	...	239.13
Southern do.	...	...	...	1,074	234	363.5

Surveys were carried on in Surat and Thána in the Northern, in Ahmednagar and Poona in the Central, and in Kánara and Kolába in the Southern Circle. The marginal statement extracted from Form No. 49 shows the progress that has been made up to date. There has been a considerable increase in the cost per mile, which is only partially accounted for by the accidental diminution of supervisional expenditure last year.

Circle.		Total forest area on June 30th, 1897.	Total surveyed.	Remainder.
		Sq. miles.	Sq. miles.	Sq. miles.
Northern	...	1,625	803	822
Central	...	6,364	1,302	5,062
Southern	...	5,278	2,741	2,537

It is hoped that some improvement will result from the substitution, where possible, on triangulation work, of Native for European agency. It is essential that the work of the draftsmen in the preparation of maps should not be allowed to fall behind the field work of the party.

6. In the Northern Circle working plans were completed for the Godhra, Máhim, Bassein, and Váda forests, and the plans for five other forest ranges were under consideration or preparation; in all 20 per cent. of the total forest area is under sanctioned working plans. 1,134 coupes were marked out on the ground, and this work is being carried on in advance of requirements.

The progress made in the Central Circle is not clearly shown in the report; but from Form No. 50 it appears that, while plans for an area of 1,878 square miles have been taken in hand, none were actually completed during the year. The Conservator states that 42 per cent. of the whole area is under detailed treatment by means of provisional working plans; the area under sanctioned plans is, however, less than 14 per cent. His Excellency the Governor in Council recognises the difficulties attendant on the rapid completion of the demarcation of compartments, but must insist that no effort be spared with the establishment available to carry out in their entirety the views of this Government and the Government of India as detailed in paragraph 5 of letter No. 959—173-5F of October 14th, 1897, from the latter Government.

In the Southern Circle two parties were at work, and made satisfactory progress in the collection of data for future plans. The area under sanctioned plans amounts to 13 per cent. of the whole.

In Sind a beginning was made in the preparation of working plans; though impeded first by demarcation work, which was under the same officer, and subsequently by the plague; fair progress was made in the Sukkur Division.

7. In the Southern Circle two roads of some importance were constructed; a Range Office and a Saw-Mill were built; and there was considerable activity in the provision of wells and forest-houses. Elsewhere the expenditure was small and was confined to the improved housing of subordinates, and necessary repairs to existing buildings and communications.

8. The following statement shows the number and result of prosecutions for forest offences, the action taken under Section 67 of the Forest Act, and the number of animals impounded, during the year under report and the preceding year :—

1895-96.								
Circle.	Prosecu- tions.	Acquit- tals.	Percent- age of failures.	Cases com- pounded	Amount realised.	Number of animals im- pounded for trespass in closed area.	Number of animals im- pounded for grazing in open area without passes.	Total of columns 7 and 8.
1	2	3	4	5	6	7	8	9
					Rs. a. p.			
Northern Circle ...	259	50	19.3	404	2,008 2 8	5,636	2,910	8,546
Central do. ...	1,799	333	18.5	2,056	6,602 0 0	196,661	125,333	321,994
Southern do. ...	504	104	20.6	360	1,406 0 0	8,328	6,1 3	14,511
Sind do. ...	70	28	40	157	419 0 0	17,270	11,569	28,839
Total ...	2,632	515	19.5	2,977	10,435 2 8	227,895	145,995	373,890
1896-97.								
Northern Circle. ...	235	76	32.3	482	2,042 4 7	7,535	2,990	10,525
Central do. ...	1,498	321	21.4	2,091	7,647 0 0	138,770	101,192	239,962
Southern do. ...	342	100	29.2	463	1,062 0 0	7,495	8,679	16,174
Sind do. ...	52	18	35	210	441 0 0	26,092	11,367	37,459
Total ...	2,127	515	24.2	3,246	11,192 4 7	179,892	124,228	304,120

There was a decrease of 505 in the number of prosecutions; the results however were less successful, one case in every four ending in acquittal, and in two of the Thána divisions the percentage of failure was as high as 40 and 44.

The number of cases compounded increased slightly; the system appears to have worked satisfactorily, and in the hard circumstances of the year commendable leniency was exercised.

9. In the Central Circle the number of cattle impounded was less by 82,032 than in 1895-96. For the preservation of cattle 1,000 square miles of closed forest throughout the Deccan were thrown open for free grazing, while in open forests all impounding was discontinued after November 1896. The fact that in the four previous months 101,192 animals had been impounded affords a further proof of the necessity for the change of system directed in Government Resolution No. 1663 of the 8th March last. The increase in the Northern and Southern Circles, in which however the total number of impoundings continued to be moderate, is attributed to the general scarcity of fodder; the increase in Sind was due to the additional closure of 213 square miles of forest against browsers, the trespass and seizure of which class of animals account for more than half of the impoundings.

The areas closed and open in the several Circles were as follows :—

Circle.	1895-96.		1896-97.		Remarks.
	Closed.	Open.	Closed.	Open.	
	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	
Northern Circle ...	359½	*1,938	319	*1,984½ <sup>04</sup> / <sub>640</sub>	* Including the area of the leased forest in the Dings which is 678½ square miles.
Central do. ...	1,785	4,565	701	5,663	
Southern do. ...	568	4,692	632	4,646	
Sind do. ...	60	1,004	85½ <sup>41</sup> / <sub>640</sub>	†982½ <sup>72</sup> / <sub>640</sub>	† Inclusive of an unclassified forest area of 3½ <sup>25</sup> / <sub>640</sub> square miles.

In future under the orders issued in the Government Resolution cited above only those areas in the Central Circle which contain forest proper or fuel reserves will remain under the management of the Forest Department; and it is the wish of Government that official interference with pasture lands shall be restricted to what is necessary to preserve State property of substantial value. The right of Government to levy fees for grazing must be maintained, but the collection of these fees will be entrusted to village headmen, who will be responsible that no evasion of payment is permitted. His Excellency the Governor in Council trusts that these measures will at once allay irritation against forest conservation, and will enable the Department, by concentrating its energies upon an area which it can manage effectively, to exhibit to the people the benefits of scientific forestry, and in the course of time enlist their co-operation. Similar orders have been issued in Government Resolutions No. 9534, dated 28th November 1896, and No. 4017, dated 17th June 1898, with regard to the Bijápúr and Belgaum districts in the Southern Circle and will probably be found equally applicable in the Dhárwár District. In other districts, of which Panch Maháls, Surat, Thána, Kolába and Ratnágiri have already been dealt with, the reserved forests must be managed as forest proper. In Ratnágiri the area is too small for the employment of a Forest officer and will be managed by the Collector; but in Thána extensive woodlands will be constituted protected forests, and utilized for the supply of local wants.

10. The number of agricultural cattle allowed to graze free was as follows:—

Circle.	Number of Agricultural Cattle allowed to graze free.	
	1895-96.	1896-97.
Northern Circle ...	302,422	343,151
Central do. ...	264,383	302,564
Southern do. ...	112,420	102,117
Sind do. ...	27,774	26,187
Total ...	706,999	774,019

In the Northern and Central Circles there was a very considerable increase.

11. There has been a marked decrease in the recorded number and extent of fires which may, it is believed, be ascribed in a large measure to the special precautions taken. The Conservators of Northern and Central Circles, however, think that, owing to the impossibility of close supervision in the special circumstances of a famine year, the reports may be less accurate than usual. It is also to be observed that the absence of grass in the Eastern Deccan made the areas practically immune from fire, although on the other hand the unusual drought made areas on which there was grass more susceptible. In the Southern Circle there has been an unfortunate increase, while in Sind there is a reduction of two-thirds. It is noticeable that of the fires the origin of which was ascertained, a large proportion (43 per cent.) were due to the carelessness of passing villagers, and malicious mischief accounted for thirty-three cases only. District Magistrates have been informed of the importance attached by Government to the repression of incendiarism, and it is incumbent on Forest officers to bring to the notice of the District Magistrate cases in which they deem the punishment awarded inadequate.

12. Except in Sind, where under an inundation of the most favourable character there was a general improvement of growth, natural reproduction was retarded by drought. There was considerable activity in artificial regeneration, but little success was attained owing to the failure of rain. Experiments in nurseries though undoubtedly of great value and interest must necessarily be restricted owing to their incommensurate cost, and His Excellency in Council is of opinion that the time has not yet come for the development by the Department of the exotic fruit nurseries advocated by the Commissioner, N. D.

13. The operations of the Department have in every Circle been seriously hampered by the misfortunes of a year of famine and plague. Slackness of business in the areas of scarcity reduced the demand both for timber and firewood, and where the effects of famine were not felt, the plague with its inevitable restrictions checked exploitation. In the Northern Circle in Thána the material as it stood in 242 coupes was sold but the rate realized fell by over 20 per cent.—from Rs. 36·4 to Rs. 28·7 per acre; departmental workings were maintained at their normal activity, but in Panch Mahals the agricultural depôt system proved a failure, and in Surat two lakhs of bamboos sold from the Dáng forests were left unremoved. In the Central Circle attempts made to introduce the Thána system of selling the material as it stood in coupes were unsuccessful; the removal of produce by purchasers decreased by more than one-half, and while the amount of timber and firewood exploited departmentally increased, the price obtained fell 38 per cent. In the Southern Circle the uniform decrease in outturn calls for no further explanation. In Sind the coupe contract system was successfully prosecuted, and the rate per acre obtained rose from Rs. 6 to Rs. 8, but there was a material decline in sales to purchasers other than the contractors.

14. The following statement gives the information regarding the year's outturn of timber and other forest produce in the form prescribed by Government Resolution No. 8265 of 21st October 1896:—

Circle.	Agency by which material removed.	Material removed.					Average Outturn per square mile of all forests.		
		Timber.	Fuel.	Total Wood.	Bamboos.	Minor produce.	Timber and fuel.	Bamboos.	Minor produce.
		C. ft.	C. ft.	C. ft.	No.	Rs.	C. ft.	No.	Rs.
Northern Circle.	Government ..	117,927	117,576	235,503	1,582	.....	...	...	...
	Purchasers ..	2,068,004	3,038,239	5,106,333	*1,748,004	9,555	..	...	...
	Free grants ...	9,730	500,000	509,730	11,835	2,930	...	...	...
	Right-holders ...	.....	1,029,546	1,029,546	52,040	6,190	...	...	...
	Total ..	2,195,751	4,685,361	6,881,112	*1,811,461	18,675	†4,234	†1,114	†11
Central Circle...	Government ..	264,880	2,503,614	2,768,444	.....	20,570	...	...	...
	Purchasers ..	753,105	1,161,251	1,914,356	1,079,529	4,02,738	...	...	...
	Free grants ...	26,595	89,365	65,960	2,600	.....	...	...	...
	Right-holders ...	2,037	4,222,495	4,225,182	20,000	3,11,835	...	...	...
	Total ..	1,047,217	7,926,725	8,973,942	1,102,129	7,35,143	1,410	173	116
Southern Circle.	Government ..	‡796,166	3,511,570	4,307,736	2,178	76,299	...	...	...
	Purchasers ...	671,723	3,880,826	4,552,554	§3,410,570	80,172	...	...	...
	Free grants ...	57,345	1,189	58,533	22,550	6	...	...	...
	Right-holders ...	.....	.....	.....	.....	.....	...	...	...
	Total ..	¶1,525,239	7,393,584	8,918,823	3,441,298	106,477	1,689	652	20
Sind Circle	Government ..	1,643	78,203	79,846	.....	292	...	...	...
	Purchasers ..	355,775	17,521,534	17,877,309	.....	5,610	...	...	...
	Free grants ..	10,937	7,088	18,025	.....	87	...	...	...
	Right-holders ..	.....	171,281	171,281	.....	900	...	...	...
	Total ..	368,355	17,778,106	18,146,461	.....	26,879	16,994	...	25
All Circles combined.	Government ...	1,180,566	6,210,963	7,391,529	3,760	97,151	...	...	...
	Purchasers ..	3,848,702	25,601,850	29,450,552	6,242,10	4,68,075	...	...	...
	Free grants ..	101,607	547,641	652,248	36,985	3,023	...	...	...
	Right-holders ..	2,687	5,423,322	5,426,009	72,040	3,18,825	...	...	...
	Grand Total for 1896-97...	5,130,562	37,783,776	42,920,338	6,354,883	8,87,174	2,993	443	61
	Grand Total for 1895-96...	7,872,898	49,560,780	57,433,678	7,647,956	10,83,216	4,022	535	76
	Difference in 1896-97 ...	-2,736,336	-11,777,004	-14,513,340	-1,293,063	-1,96,042	-1,029	-92	-15

\* Besides 5,073 cart-loads and 4,263 head-loads of bamboos.

† These averages are per square mile of the total forest area of the Northern Circle excluding the leased forests of the Dángs.

‡ Besides khandis, &c., of sandal-wood.

§ Besides 63 cart-loads of dry bamboos.

¶ Besides 11,534,581 cubic feet of timber and fuel, 515,215 bamboos, and minor produce of the value of Rs. 17,327 removed under privileges.

15. The receipts from grazing fees and the sale of grass in the several Circles were as follows :—

Circle	Receipts.	
	1895-96.	1896-97.
	Rs.	Rs.
Northern Circle ...	21,451	22,672
Central do. ...	4,07,400	4,44,607
Southern do. ...	95,989	79,067
Sind do. ...	59,934	61,055
Total ...	5,84,774	6,07,401

Of the sum realized in the Central Circle Rs. 66,361 were due to the operations for the supply of pressed grass to the famine-affected districts, the cost of which however amounted to Rs. 1,26,705. But sufficient compensation for this loss was found in the aid given in the preservation of agricultural cattle, which besides saving many cultivators from destitution contributed, with other measures, to prevent a decline in land revenue which otherwise would have been inevitable.

16. Free grants of timber were made in the several Circles to the extent shown below :—

Circle.	Value of free grants.	
	1895-96.	1896-97.
	Rs.	Rs.
Northern Circle...	4,555	4,415
Central do. ...	4,201	2,087
Southern do. ...	64,255 C. ft.	12,324
Sind do. ...	1,411	1,532

17. The financial results of the year under review and of the preceding year are compared in the following statement :—

Circle.	Receipts.		Expenditure.		Net Revenue.		Increase or decrease in net Revenue in
	1895-96.	1896-97.	1895-96.	1896-97.	1895-96.	1896-97.	1896-97.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle ...	7,83,283	5,83,437	2,97,437	3,19,881	4,85,846	2,63,556	—2,22,290
Central do. ...	7,59,605	7,04,365	5,27,207	6,93,400	2,32,398	10,965	—2,21,434
Southern do. ...	14,98,084	14,40,798	8,54,353	8,76,557	6,43,731	5,64,241	—79,490
Sind do. ...	4,65,745	3,12,297	2,34,807	1,31,209	2,30,938	1,78,088	—52,850
Total ...	35,06,717	30,40,897	19,13,804	20,24,047	15,92,913	10,16,850	—5,76,063

The decrease in the total net revenue amounted to five and three-quarter lakhs. The principal causes have been sufficiently explained above; subsidiary causes were : in the Central Circle, increase of expenditure on establishments as compensation for famine prices, and special provision of work as a form of famine relief ; and in Sind the impossibility of effecting recoveries from contractors within the year. On the other hand, receipts in the Southern Circle were swelled by the reduction of outstandings of the previous year.

In Sind the cessation of the departmental operations reduced the expenditure by a lakh and a half.

18. Dismissals from service amongst the subordinate establishment were numerous, and, except in Sind, no improvement in their conduct is reported. The extent of their misconduct cannot, however, be judged without information as to the proportion that these numbers bear to the total establishment entertained. This information should in future be supplied.

Northern Circle	...	18	
Central Circle	...	61	
Southern Circle	...	37	
Sind	...	Not stated.	

19. The year has been marked by difficulty and distress throughout, and the Forest Department owing to the commercial nature of its transactions has been subjected to a specially severe strain. The decline of revenue was inevitable and His Excellency in Council recognises that, but for the strenuous exertions and devotion to duty of the Conservators and the officers serving under them the administration would undoubtedly have been more seriously affected than it actually was by the general dislocation of private business throughout the Presidency.

20. The usual memorandum of discrepancies found in the reports is appended to this Resolution.

H. S. LAWRENCE,  
Under Secretary to Government.

To

The Commissioner in Sind,	}	With copies of the Reports.
The Commissioner, N. D.,		
The Commissioner, C. D.,		
The Commissioner, S. D.,		
All Collectors, including the Collectors and Deputy Commissioners in Sind,		
The Conservators of Forests, Central, Southern and Sind Circles,		
The Deputy Conservator of Forests in charge N. C.,		
The Survey Commissioner and Director of Land Records and Agriculture,		
The Superintendent, Bombay Forest Surveys,		
The Public Works Department of the Secretariat,		
The Accountant General,	}	By letter.
The Government of India,		
The Secretary of State for India.		
The Editors' Table, Bombay,		
The Editors' Table, Poona, <i>care of</i> the City Magistrate, Poona,		
The Editor of the <i>Dhárwár Vritt</i> , Dhárwár (for his own use and for the use of the Editors of other newspapers in Dhárwár),		
The Editors' Table, Belgaum, <i>care of</i> the Secretary, Belgaum Municipality.		

No.      of 1898.

Copy forwarded for information and guidance to



**Memorandum referred to in paragraph 20 of Government Resolution  
No. 4366, dated 4th July 1898.**

*Northern Circle.*

The rate per mile of the cost of erecting boundary marks in the North, Central and South Thána Divisions and in the Surat Division should be 16.1 instead of 16.01 shown in the penultimate column of the statement embodied in paragraph 11 of the report.

In paragraph 17 of the Forest Report it is stated that the figures given in it as regards Forest Survey are for the Forest year, whereas according to Statement A accompanying the report of the Superintendent, Bombay Forest Surveys, these figures are for the Survey year.

The total forest area shown in Form No. 46 is 1,191 square miles 155 acres, but in the penultimate column of the statement embodied in paragraph 25 of the report showing the progress made in working plans in the Northern Circle during the year 1896-97, the total forest area is stated to be 2,630 square miles.

The average price per acre of the coupes exploited during 1896-97 should be Rs. 28.7, and not Rs. 28.5 shown in the last column of the statement subjoined to paragraph 63 of the report.

In the statement appended to paragraph 70 of the report the total outturn of bamboos in 1896-97 is stated to be 1,747,586 besides 5,073 cart-loads and 4,263 head-loads, whereas in Form No. 57 the total outturn is shown to be 1,811,461 besides 5,073 cart-loads and 4,263 head-loads.

The statement of the outturn of produce appended to paragraph 72(a) of the report does not show all the details required by paragraph 9 of Government Resolution No. 8265, dated 21st October 1896.

The net revenue for 1895-96 should be Rs. 4,85,846 and not Rs. 4,85,746 given in the last column of the statement appended to paragraph 75 of the report.

In Form No. 51 in the column 'New works undertaken during the year,' the grand total of the expenditure incurred on buildings should be Rs. 1,845-10-4 instead of 1,797-13-2, and of that on 'Roads and Paths' Rs. 2,005-7-3. In the column 'Repairs executed during the year' Rs. 688-10-6 should be entered as the grand total of the expenditure incurred.

In columns 13 and 14 of Form No. 52 the figures 19 and 21 respectively should be entered as the total of B cases disposed of under Section 67 of the Forest Act in Surat; this will raise the total of A, B and C classes of the two columns for the Surat District to 26 and 30 respectively instead of 7 and 9, and the grand total for the Circle of the number of cases and persons under B should be raised proportionately. The total number of convictions in the Circle during the year should be 641 instead of 681 shown in column 9 of the Form,

The total forest area of the Circle given in Form No. 54 is 2,265 $\frac{3}{4}$  square miles, whereas according to the details given in Forms Nos. 46 and 46 A it amounts to 1,625 $\frac{184}{640}$  square miles exclusive of the leased forests of the Dangs measuring 678 $\frac{320}{640}$  square miles.

Rs. 215 should be entered in column 7 (Receipts) of Form No. 56 against the entry 'Total Regular Plantations' as well as against 'Grand Total of cultural operations and regular plantations'.

The two columns of Form No. 60 A headed 'Difference in value' are apparently incorrectly prepared. The entries shown in the column 'In favour of the year' should be entered in the column 'Against the year,' and *vice versa*. According to the details given in the form the total value of live and dead stock on hand at the commencement and at the close of the year 1896-97 in the Panch Maháls amounts to Rs. 11,596 and Rs. 13,331, and not Rs. 11,746 and Rs. 13,531, and the grand total for the whole Circle amounts to Rs. 54,476 and Rs. 55,820, and not Rs. 54,626 and Rs. 55,970 shown in the Form,

*Central Circle.*

The statement appended to paragraph 36 of the report shows that at the end of the year 1896-97 an area of 3,647 square miles of forest still remains to be brought under working plans, whereas according to the details given in Form No. 50 the areas for which working plans have still to be taken in hand amount to 3,598 square miles.

The amount of Rs. 1,442 spent on additions and alterations to existing buildings specified in paragraph 41 and the sum of Rs. 1,256 expended in the construction of wells mentioned in paragraph 42 of the report have not been shown in Form No. 51 annexed to the report.

In paragraph 160 of the report it is stated that 4,800 cubic feet of bábul bark collected in the Tásgaon Range of the Sátára District was sold for Rs. 110, whereas in Form No. 58 its price is shown to be Rs. 131.

The total value of forest produce lost to forest revenue by concessions in the Central Circle according to the details given in the statement appended to paragraph 184 of the report amounts to Rs. 4,17,579, and not Rs. 4,17,519 shown in the last column of it.

The statement appended to paragraph 185 of the report does not contain columns for the value of fuel, timber, bamboos and grazing required under the orders contained in Government Resolutions No. 2872, dated 12th April, and No. 4269, dated 8th June 1897.

The total value of live and dead stock in West Khándesh on hand at the close of the year 1896-97 and the difference in value against the year should be Rs. 8,404 and Rs. 1,718 instead of Rs. 8,513 and 1,609 respectively shown in the 5th and 7th columns of Form No. 60A.

*Southern Circle.*

In the statement appended to paragraph 34 of the report the difference between 1896-97 and 1895-96 in the cost rate per acre of the work done by Working Plans Party No. II should be Re. 0-6-10·4 instead of Re. 0-6-8·4.

In the seventh column of Form No. 50 the total forest area of the Circle is stated to be 5,246 square miles, whereas according to the details given in Forms Nos. 46 and 46A it amounts to 5,278 square miles. According to the details given in columns 3 and 6 of Form No. 51 the total expenditure on 'Buildings' and on 'New work' undertaken during the year in the Northern Division of Kánara should be Rs. 10,200 instead of Rs. 16,200 entered in column 7 of the form.

The proportion of reserved forest area in the whole Circle under fire protection during 1896-97 to total area of reserves should, according to the details given in the statement appended to paragraph 65 of the report, be 35·3 instead of 44·96. The figure 144·7 shown in the last column of the statement against the Northern Division of Kánara as the proportion of area under fire protection to total area of reserves is evidently incorrect.

According to the details given in Form No. 58 the value of minor forest produce removed in the Northern Division of Kánara by purchasers amounts to Rs. 7,575 and not Rs. 16,541 mentioned in the 6th column and the total value of the produce amounts to Rs. 16,541 and not Rs. 25,507 shown in the penultimate column of the form.

*Sind Circle.*

In paragraph 34 of the report the amount spent on demarcation is stated to be Rs. 188-5-0, whereas in the 9th column of Form No. 48 it is shown to be Rs. 240.

In paragraph 37 of the report the length of boundary paths cleared and repaired is stated to be 1,406 miles, but from the details given in columns 2 and 3 of Form No. 48 it appears that 1,455 miles of boundaries were demarcated and repaired during the year.

In paragraph 84 of the report 687 acres of *regular plantations* are stated to have been added in the year 1896-97 in the Kot Sultán Reserve, whereas in Form No. 56 appended to the report 627 acres of *cultural operations* are shown to have been added. In the same paragraph it is also reported that 10 acres of regular plantations were created in the Abad Forest and 100 acres of bábul plantations in Garhi Halim Reserve, whereas in Form No. 56 no such areas are shown to have been added to regular plantations. From the details shown in the form it however appears that cultural operations were carried on to the extent of 182 acres in Abad and 27 acres in Garhi Halim.

The realisations from the sale-proceeds of bábul pods in the Nausháhro Division in 1896-97 are shown to be Rs. 782 in the statement appended to paragraph 123 of the report and Rs. 767 in Form No. 58 accompanying the report.

In paragraph 137 of the report the decrease in net receipts for the forest year 1896-97 is stated to be Rs. 52,856, whereas according to the details given in the statement at paragraph 134 the decrease amounts to Rs. 52,850.

In the statement appended to paragraph 139 of the report the total receipts and the surplus of receipts over expenditure for the forest year 1895-96 are stated to be Rs. 4,65,775 and Rs. 2,30,968, whereas in the statement appended to paragraph 134 they are shown to be respectively Rs. 4,65,745 and Rs. 2,30,938.